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## ABSTRACT

Nebraska postsecondary enrollment trends from 1967 to 1987 are examined with focus on population trends, traditional enrollment forecasting, non-traditional enrollment trends, procedure followed in developing enrollment projections, and institutional sector historical and projected fall enrollments. Among the conclusions reached by the study are: (1) Nebraska students go to school in Nebraska--few go out-of-state; (2) population declines are projected for the 18-24-year-old age group; (3) population increases are projected for the 25-59-year old age group; (4) first-time full-time enrollment will decline; (5) total full-time enrollment will decline; (6) part-time enrollment will increase; (7) the net effect will be a moderate decline in total enrollment; (8) moderate reduction in full-time equivalent enrollment may be expected; (9) award-related instruction will decline; and (10) non-award-related instruction will increase. Graphs of population and enrollment data are provided, along with tables of statistical data on such areas as ratios used in making enrollment projections, estimated population headcount enrollment, and projected numbers of high school graduates. (LC)

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# NEBRASKA COORDINATING COMMISSION FOR POSTSECONDARY EDUCATION

Enrollment Trends in Postsecondary Education  
for the  
State of Nebraska  
1967-1987

June 2, 1978

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HE 012 281

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Enrollment Trends In Postsecondary Education

For The

State of Nebraska

1967-1987

June 2, 1978

The Nebraska Coordinating Commission for Postsecondary Education

P. O. Box 95005

Lincoln, Nebraska 68509

## PREFACE

The Nebraska Coordinating Commission for Postsecondary Education was assigned responsibility for the preparation of enrollment projections for Nebraska postsecondary education with the passage of LB 579 (1976). This statute was subsequently amended by LB 459 (1977), however, the language of the two bills remained the same with respect to this responsibility:

*Effective January 1, 1977, to undertake the task of running the Enrollment Projection Model developed by the Higher Education Facilities Commission. Duties shall include the collection of the input data, operation of the model, and a report of the findings.*

For purposes of this report, the Commission did not rely on the Nebraska Enrollment Projection System (NEPS), developed by Systems Research, Inc., for the Nebraska Facilities Commission. The existing problems with NEPS as detailed by the Legislative Fiscal Office (Appendix 1), suggested that something entirely different might be used for purposes of developing estimates of future enrollments for Nebraska postsecondary educational institutions. The procedure followed by the Commission staff in developing the enrollment trends described in this report is detailed in a separate section of this document. It should be noted that previous enrollment projection reports that relied on NEPS only reported enrollment totals. This report reflects

separate projections for full-time and part-time enrollments to derive projected total enrollment estimates. The separation of the total enrollment into full- and part-time provides more utility for understanding what may be expected in the future than if total enrollments were the only projections made. In addition, projections are shown for first-time full-time enrollments. Thus, the projections made here may not be based on the use of NEPS, but they are similar in concept and hopefully provide some addition value in terms of bringing about a level of understanding regarding that which can be expected in the future; a level of understanding that was not always possible with the use of NEPS.

The Commission is indebted to the members of the Advisory Committee who have provided comment on the procedure that has been followed and reviewed the draft of this report.

# ENROLLMENT TRENDS IN POSTSECONDARY EDUCATION

## TABLE OF CONTENTS

| <u>Section</u>                                                                                                         | <u>Page</u> |
|------------------------------------------------------------------------------------------------------------------------|-------------|
| PREFACE                                                                                                                | i           |
| I. INTRODUCTION                                                                                                        | 1           |
| II. Historical and Projected Trends in Nebraska<br>Postsecondary Education Enrollments                                 | 9           |
| A. Nebraska Population Trends                                                                                          | 10          |
| 1. Trends Related in Live Births                                                                                       | 10          |
| 2. Trends Related to Population<br>Forecasts for the Age Group 18-59                                                   | 14          |
| 3. Trends Related to High School Graduates                                                                             | 17          |
| B. Traditional Enrollment Forecasting: Trends<br>and Projections                                                       | 20          |
| 1. First-Time Full-Time Enrollments                                                                                    | 20          |
| 2. Full-Time Enrollments                                                                                               | 23          |
| 3. Part-Time Enrollments                                                                                               | 26          |
| 4. Total Enrollments                                                                                                   | 30          |
| 5. Summary                                                                                                             | 33          |
| C. Non-Traditional Enrollment Trends                                                                                   | 38          |
| 1. Award Related Instructional Trends                                                                                  | 43          |
| 2. Non-Award Related Instructional Trends                                                                              | 45          |
| 3. Trends Related to All Instruction                                                                                   | 48          |
| 4. Summary                                                                                                             | 49          |
| III. Procedure Followed in Developing the Traditional<br>Type of Enrollment Projections                                | 53          |
| 1. Assumptions Considered                                                                                              | 53          |
| 2. Assumptions Not Considered                                                                                          | 55          |
| 3. The Two Series of Projections                                                                                       | 59          |
| IV. Institutional Sector Historical and Projected Fall<br>Enrollments and Institutional Historical Fall<br>Enrollments | 63          |
| V. Appendices                                                                                                          | 96          |

## LIST OF FIGURES

| <u>FIGURE</u> |                                                                                                                                                         | <u>PAGE NO.</u> |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Figure No. 1  | Live Births in Nebraska for the Years 1945-1977                                                                                                         | 12              |
| Figure No. 2  | Live Births in Nebraska for the Years 1945-1977 and Impact on Post-secondary Education Enrollment for the Years 1978-1987                               | 13              |
| Figure No. 3  | Nebraska Population Projection (Medium Series) for the Age Groups 18-59, (25-59 and 18-24)                                                              | 16              |
| Figure No. 4  | Nebraska Historical and Projected Twelfth Grade Enrollment and Number of High School Graduates                                                          | 18              |
| Figure No. 5  | Historical and Projected First-Time Full-Time Enrollments                                                                                               | 22              |
| Figure No. 6  | Historical and Projected Full-Time Enrollments                                                                                                          | 24              |
| Figure No. 7  | Historical and Projected Part-Time Enrollments                                                                                                          | 28              |
| Figure No. 8  | Historical and Projected Total Enrollments                                                                                                              | 34              |
| Figure No. 9  | Historical and Projected Fiscal Year Unduplicated Headcount Enrollment for Award Related Instructional Programs in the Public Institutional Sectors     | 44              |
| Figure No. 10 | Historical and Projected Fiscal Year Unduplicated Headcount Enrollment for Non-Award Related Instructional Programs in the Public Institutional Sectors | 46              |
| Figure No. 11 | Historical and Projected Fiscal Year Unduplicated Headcount Enrollment for all Instructional Programs in the Public Institution Sectors                 | 50              |

## LIST OF TABLES

| <u>TABLE</u> |                                                                                                                                                             | <u>PAGE NO.</u> |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Table No. 1  | Percentage Change in Total, Full-Time and Part-Time Enrollments for Nebraska and Nebraska Institutional Sectors for the Period Fall 1973 to Fall 1977       | 31              |
| Table No. 2  | Numerical Change in Total, Full-Time and Part-Time Enrollment for Nebraska and Nebraska Institutional Sectors for the Period Fall 1973 to Fall 1977         | 32              |
| Table No. 3  | Historical and Projected Total Enrollments for Nebraska and Nebraska Institutional Sectors for the Period Fall 1973 to Fall 1987                            | 35              |
| Table No. 4  | Estimated Population and Fiscal Year Unduplicated Headcount Enrollment Reported by Public Institutional Sectors for the Role and Mission Redefinition Study | 40              |
| Table No. 5  | Projected Fiscal Year Unduplicated Headcount Enrollment for Public Post-secondary Institutional Sectors in all Instructional Programs                       | 51              |
| Table No. 6  | Ratios Used in Making Enrollment Projections                                                                                                                | 60              |
| Table No. 7  | Historical and Projected Numbers of High School Graduates                                                                                                   | 61              |
| Table No. 8  | Nebraska Collegiate Institutions of Higher Education Historical and Projected, On Campus Degree Credit Enrollment                                           | 64              |
| Table No. 9  | University of Nebraska Historical and Projected, On Campus Degree Credit Enrollment                                                                         | 65              |
| Table No. 10 | University of Nebraska - Lincoln Historical, On Campus Degree Credit Enrollment                                                                             | 66              |

|              |                                                                                                          |    |
|--------------|----------------------------------------------------------------------------------------------------------|----|
| Table No. 11 | University of Nebraska - Omaha<br>Historical On Campus Degree Credit<br>Enrollment                       | 67 |
| Table No. 12 | University of Nebraska - Medical<br>Center Historical, On Campus Degree<br>Credit Enrollment             | 68 |
| Table No. 13 | Nebraska State College Historical<br>and Projected, On Campus Degree<br>Credit Enrollment                | 69 |
| Table No. 14 | Chadron State College Historical,<br>On Campus Degree Credit Enrollment                                  | 70 |
| Table No. 15 | Kearney State College Historical,<br>On Campus Degree Credit Enrollment                                  | 71 |
| Table No. 16 | Peru State College Historical, On<br>Campus Degree Credit Enrollment                                     | 72 |
| Table No. 17 | Wayne State College Historical, On<br>Campus Degree Credit Enrollment                                    | 73 |
| Table No. 18 | Nebraska Technical Community Colleges<br>Historical and Projected, On Campus<br>Degree Credit Enrollment | 74 |
| Table No. 19 | Central Technical Community College<br>Area Historical, On Campus Degree<br>Credit Enrollment            | 75 |
| Table No. 20 | Metropolitan Technical Community<br>College Historical, On Campus Degree<br>Credit Enrollment            | 76 |
| Table No. 21 | Mid Plains Technical Community College<br>Historical, On Campus Degree Credit<br>Enrollment              | 77 |
| Table No. 22 | Northeast Technical Community College<br>Historical, On Campus Degree Credit<br>Enrollment               | 78 |
| Table No. 23 | Southeast Technical Community College<br>Area Historical, On Campus Degree Credit<br>Enrollment          | 79 |
| Table No. 24 | Western Nebraska Technical Community<br>College Area Historical, On Campus<br>Degree Credit Enrollment   | 80 |
| Table No. 25 | Nebraska Independent College Historical<br>and Projected, On Campus Degree Credit<br>Enrollment          | 81 |

|              |                                                                                   | <u>PAGE NO.</u> |
|--------------|-----------------------------------------------------------------------------------|-----------------|
| Table No. 26 | Bellevue College<br>Historical, On Campus Degree<br>Credit Enrollment             | 82              |
| Table No. 27 | The College of St. Mary<br>Historical, On Campus Degree<br>Credit Enrollment      | 83              |
| Table No. 28 | Concordia College<br>Historical, On Campus Degree<br>Credit Enrollment            | 84              |
| Table No. 29 | Creighton University<br>Historical, On Campus Degree<br>Credit Enrollment         | 85              |
| Table No. 30 | Dana College<br>Historical, On Campus Degree<br>Credit Enrollment                 | 86              |
| Table No. 31 | Doane College<br>Historical, On Campus Degree<br>Credit Enrollment                | 87              |
| Table No. 32 | Grace College of the Bible<br>Historical, On Campus Degree<br>Credit Enrollment   | 88              |
| Table No. 33 | Hastings College<br>Historical, On Campus Degree<br>Credit Enrollment             | 89              |
| Table No. 34 | Midland Lutheran College<br>Historical, On Campus Degree<br>Credit Enrollment     | 90              |
| Table No. 35 | Nebraska Christian College<br>Historical, On Campus Degree<br>Credit Enrollment   | 91              |
| Table No. 36 | Nebraska Wesleyan University<br>Historical, On Campus Degree<br>Credit Enrollment | 92              |
| Table No. 37 | Platte Valley Bible College<br>Historical, On Campus Degree<br>Credit Enrollment  | 93              |
| Table No. 38 | Union College<br>Historical, On Campus Degree<br>Credit Enrollment                | 94              |

Table No. 39

York College  
Historical, On Campus Degree  
Credit Enrollment

95

## I. INTRODUCTION

In the late 1960's and early 1970's forecasts of declining enrollments in the 1980's were being met with skepticism on the part of the postsecondary education community. The expected decline has now been accepted and many institutional officers and state legislators are attempting to assess the magnitude of the decline and the programmatic as well as financial impact the decline will have on the operations of the institutions.

Postsecondary enrollments are related to a number of variables; some that are measurable (e.g. live births and number of high school graduates), and some that cannot be measured or so easily counted (e.g. attitude toward the attainment of a postsecondary education). Some interesting facts which have and will continue to affect Nebraska postsecondary enrollments and which required consideration in the preparation of these enrollment forecasts include:

1. Between 1945 and 1977, the year in which there were more live births than any other was 1961 (34,544). Not unexpectedly, therefore, the State Education Department expects its largest twelfth grade enrollment to be in 1978 (27,480); seventeen years following the year when more live births took place than any other year between 1945 and 1977.
2. In 1973, there were fewer births than any other year between 1945 and 1977. This decline in live births, of some 11,773 (34,544 to 22,771), or 34% between 1961 and 1973, will impact on twelfth grade enrollments in 1990; seventeen years later.

3. In the last decade part-time fall enrollments in Nebraska postsecondary educational institutions (private vocational schools excluded), increased by 149% (10,932 in 1967 to 27,222 in 1977), while full-time enrollments increased by some 18.55% (46,276 in 1967 to 54,863 in 1977).
4. The number of first-time full-time freshmen (students not previously enrolled in an institution of higher education and enrolled full-time) increased from 13,632 in 1967 to 15,724 in 1977; an increase of 15.35%.
5. By institutional sectors, the following enrollment changes have occurred in the past five years (fall 1973 to fall 1977).

a. Total Enrollment

|                                                |         |
|------------------------------------------------|---------|
| University of Nebraska                         | + 7.59% |
| Nebraska State Colleges                        | +14.56% |
| Nebraska Technical Community Colleges          | +62.44% |
| Nebraska Independent Colleges and Universities | + 5.74% |
| State Total                                    | +15.27% |

b. Full-Time Enrollment

|                                                |          |
|------------------------------------------------|----------|
| University of Nebraska                         | + 2.33%  |
| Nebraska State Colleges                        | + 5.68%  |
| Nebraska Technical Community Colleges          | +119.25% |
| Nebraska Independent Colleges and Universities | - 0.26%  |
| State Total                                    | +12.17%  |

c. Part-Time Enrollment

|                                                |         |
|------------------------------------------------|---------|
| University of Nebraska                         | +18.91% |
| Nebraska State Colleges                        | +43.27% |
| Nebraska Technical Community Colleges          | +19.83% |
| Nebraska Independent Colleges and Universities | +39.64% |
| State Total                                    | +22.06% |

d. First-Time Full-Time Enrollment

|                                                   |          |
|---------------------------------------------------|----------|
| University of Nebraska                            | + 0.86%  |
| Nebraska State Colleges                           | +21.08%  |
| Nebraska Technical Community<br>Colleges          | +131.80% |
| Nebraska Independent Colleges<br>and Universities | - 5.74%  |
| State Total                                       | +22.28%  |

6. The last time residence and migration data were collected on the national level was in the fall of 1975.

a. These data show the following for Nebraska and those states which border Nebraska or have one of the Big Eight institutions.

| <u>State</u> | <u>Percent of Degree<br/>Credit Undergraduate<br/>Students Enrolled<br/>Within State of<br/>Residence, 1975</u> | <u>Percent of First<br/>Professional<br/>Students Enrolled<br/>Within State of<br/>Residence, 1975</u> | <u>Percent of Degree<br/>Credit Graduate<br/>Students Enrolled<br/>Within State of<br/>Residence, 1975</u> |
|--------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Nebraska     | 83.8%                                                                                                           | 74.0%                                                                                                  | 78.39%                                                                                                     |
| Colorado     | 82.7%                                                                                                           | 55.7%                                                                                                  | 67.35%                                                                                                     |
| Iowa         | 77.4%                                                                                                           | 70.3%                                                                                                  | 67.00%                                                                                                     |
| Kansas       | 85.3%                                                                                                           | 61.6%                                                                                                  | 78.24%                                                                                                     |
| Missouri     | 84.0%                                                                                                           | 79.2%                                                                                                  | 78.69%                                                                                                     |
| Oklahoma     | 88.9%                                                                                                           | 75.3%                                                                                                  | 85.92%                                                                                                     |
| South Dakota | 79.8%                                                                                                           | 45.2%                                                                                                  | 64.73%                                                                                                     |
| Wyoming      | 66.8%                                                                                                           | 33.1%                                                                                                  | 40.61%                                                                                                     |

- b. That for the same states the in and out of state migration pattern shows the following:

|              | Total Number<br>who came to<br>the state to<br>enroll from other<br>states (immigration) | Total Number<br>who left the<br>state to enroll<br>in other states<br>(outmigration) | Percentage<br>gain or loss<br>of immigration<br>over outmigration |
|--------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Nebraska     | 15,126                                                                                   | 13,597                                                                               | +11.25%                                                           |
| Colorado     | 47,865                                                                                   | 24,247                                                                               | +97.41%                                                           |
| Iowa         | 28,626                                                                                   | 30,371                                                                               | - 5.75%                                                           |
| Kansas       | 21,877                                                                                   | 21,064                                                                               | + 3.86%                                                           |
| Missouri     | 38,356                                                                                   | 36,571                                                                               | + 4.88%                                                           |
| Oklahoma     | 28,154                                                                                   | 18,570                                                                               | +51.61%                                                           |
| South Dakota | 7,662                                                                                    | 7,701                                                                                | - 0.51%                                                           |
| Wyoming      | 5,198                                                                                    | 5,388                                                                                | - 3.53%                                                           |

- c. That the percentage of Nebraskans enrolled in the Nebraska institutional sectors shows the following:

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| University of Nebraska                            | 84.89% Nebraskans        |
| Nebraska State Colleges                           | 87.07% Nebraskans        |
| Nebraska Technical Community<br>Colleges          | <u>85.21% Nebraskans</u> |
| Public Institutional Sector                       | 85.32% Nebraskans        |
| Nebraska Independent Colleges<br>and Universities | <u>54.44% Nebraskans</u> |
| State Total                                       | 79.75% Nebraskans        |

Similar data for the other states show the following:

| <u>State</u> | <u>1975 Percentage of<br/>Total Enrollment in<br/>Public Institutions<br/>that are residents<br/>of the state</u> | <u>1975 Percentage of<br/>Total Enrollment in<br/>Private Institutions<br/>that are residents<br/>of the state</u> | <u>1975 Percentage of<br/>the Total State<br/>Enrollment that are<br/>residents of the<br/>state</u> |
|--------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Nebraska     | 85.32%                                                                                                            | 54.44%                                                                                                             | 79.75%                                                                                               |
| Colorado     | 74.06%                                                                                                            | 41.77%                                                                                                             | 71.16%                                                                                               |
| Iowa         | 84.79%                                                                                                            | 58.55%                                                                                                             | 76.55%                                                                                               |
| Kansas       | 84.62%                                                                                                            | 58.26%                                                                                                             | 81.76%                                                                                               |
| Missouri     | 90.64%                                                                                                            | 62.94%                                                                                                             | 82.63%                                                                                               |
| Oklahoma     | 83.47%                                                                                                            | 66.56%                                                                                                             | 80.87%                                                                                               |
| South Dakota | 86.67%                                                                                                            | 48.36%                                                                                                             | 75.45%                                                                                               |
| Wyoming      | 71.00%                                                                                                            | 0.00%                                                                                                              | 71.00%                                                                                               |

7. Population projections for the state of Nebraska (medium series), indicate the following:
  - a. For the age group 18-24 (the traditional college going age group), there is an increase expected in the population of 23.67% between 1970 and 1980 but after 1980 the population for this age group is expected to decline some 20.65% by 1990.
  - b. For the age group 25-59 (the non-traditional college going age group), there is expected to be continued growth in the population; increasing by some 17.97% between 1970 and 1980 and another increase of 19.13% by 1990.

8. Data collected by the Nebraska Postsecondary Education Advisory Committee of the Legislature during the summer of 1977 for their study related to role and mission redefinition for the public postsecondary institutional sectors shows the fiscal year unduplicated headcount enrollments have changed in the following manner:
  - a. In 1973-74, the equivalent of 19.07% of the estimated population (medium series) between the ages of 18 and 59 came into contact with a public postsecondary institutional activity or service (13.43% at the University of Nebraska; 2.27% at the Nebraska State Colleges; and, 3.37% at the Nebraska Technical Community Colleges).
  - b. By 1976-77, the equivalent of almost 1 out of every 4 (24.21%) Nebraskans between the ages of 18 and 59 (medium series), are estimated to have made some contact with these institutions (11.59%, University of Nebraska; 2.49%, Nebraska State Colleges; 10.13%, Nebraska Technical Community Colleges).
9. Enrollment projections for total postsecondary enrollments in Nebraska have in the past been within three to eight percent of the actual enrollments; from 1 to 30 percent of the actual enrollment for institutions and institutional sectors; and for technical community colleges underestimated by as much as 25-40 percent.
10. The problems of definition which plague the reporting of data are problematic for the accurate forecasting of enrollments and enrollment trends. It is expected that this will continue to be so until Nebraska institutes some form of a state-wide uniform information system that is supported by definitions that are reasonably common among and between institutional sectors.

The information provided in this section of the report is provided to give a historical reference regarding some of the factors which have and, within reason, will continue to effect postsecondary enrollments in Nebraska. Discussion and

analyses have not been provided for each of the ten statements given above. The information clearly speaks for itself, however, in summary the following can be said about these statements:

1. Nebraska Students go to school in Nebraska -- few go out-of-state.
2. Population declines are projected for the 18-24 year-old age group.
3. Population increases are projected for the 25-59 year-old age group.
4. First-time full-time enrollment will decline.
5. Total full-time enrollment will decline.
6. Part-time enrollment will increase.
7. The net affect will be a moderate decline in total enrollment.
8. Moderate reduction in full-time equivalent enrollment may be expected.
9. Award related instruction will decline.
10. Non-award related instruction will increase.

The remainder of this report is devoted to the demonstration of enrollment trends and related discussion, a discussion of the procedure followed in developing traditional enrollment projections through 1987 and finally, the enrollment projections for the institutional sectors and historical enrollments of the Nebraska postsecondary educational institutions, sectors and areas.

## II. HISTORICAL AND PROJECTED TRENDS IN NEBRASKA POSTSECONDARY EDUCATION ENROLLMENTS

This section is devoted to historical and projected trends in Nebraska postsecondary education enrollments. The historical enrollment data presented were obtained from the fall enrollment reports prepared by the Nebraska Association of Collegiate Registrars and Admission Officers (NACRAO) for the years 1968-1977, the federal Higher Education General Information Survey (HEGIS) of Opening Fall Enrollments, and those data collected by the Postsecondary Education Advisory Committee of the Legislature for their role and mission redefinition study for the public postsecondary education institutions, systems, and areas. Data on the number of live births in Nebraska for the years 1945 to 1977 (est.) were taken from: Statistical Report of the Bureau of Vital Statistics, State Department of Health, Lincoln, Nebraska 1976. Population data shown were obtained from: Nebraska Population Projections II, published by the Bureau of Business Research, The University of Nebraska-Lincoln, Nebraska Economic and Business Reports, Number 14, July, 1976. In all instances the medium series population projections were used.

To provide a framework for the discussion related to enrollment trends it is important to briefly review trends related to the Nebraska population. This discussion is followed by historical and anticipated enrollment trends for the postsecondary institutional sectors utilizing population data. The forecasted trends are based on a reasonable and a traditional approach to enrollment projections and reflect only what may happen in terms of institutional sector opening fall enrollments. This traditional approach is followed by forecasts of the unduplicated headcount enrollments for fiscal years using data collected by the Postsecondary Education Advisory Committee of the Legislature. Since the study by the Legislature only involved the public institutions, no forecasts or trends are shown for the Nebraska independent colleges and universities. It should be noted that none of the trends or projections reported in this document include the Nebraska private vocational (proprietary) schools.

#### A. Nebraska Population Trends

##### 1. Trends Related to Live Births

One index related to future populations in Nebraska is the number of live births in the state. The first graph (Figure No. 1) shows the number of live births in Nebraska

for the years 1945 through 1977 (est.). As can be noted from this figure, 1961 was the year in which there were more live births than any other year (34,544). Although previous years are not shown, there were more live births in 1961 than any other year between 1925 and 1977. Except for a five year period between 1937 and 1941, there were fewer live births in 1973 (22,771), than any other year since 1925. The precipitous fall in the number of live births between 1961 and 1967 was reversed in 1968 and increased through 1970. After 1970 the number of live births took another downturn until 1973 when the trend was again reversed and has continued to increase through last year (1977 est.).

The impact of this trend in the number of live births is expected to affect postsecondary education enrollments eighteen years later as demonstrated in Figure No. 2. For example, those children born in 1945 are expected to enter postsecondary educational institutions eighteen years later in 1963 (this is a traditional enrollment projection assumption that has its limitations). The shaded area on Figure No. 2. reflects the years for which enrollment projections and trends are reported in this document (i.e. live birth years of 1960 to 1969 and years of postsecondary enrollments of 1978 to 1987). Not unexpectedly, therefore, the enrollment forecasts contained herein show moderate increases in 1986

Figure No. 1

Live Births In Nebraska  
For The Years  
1945-1980

Number of  
Live Births

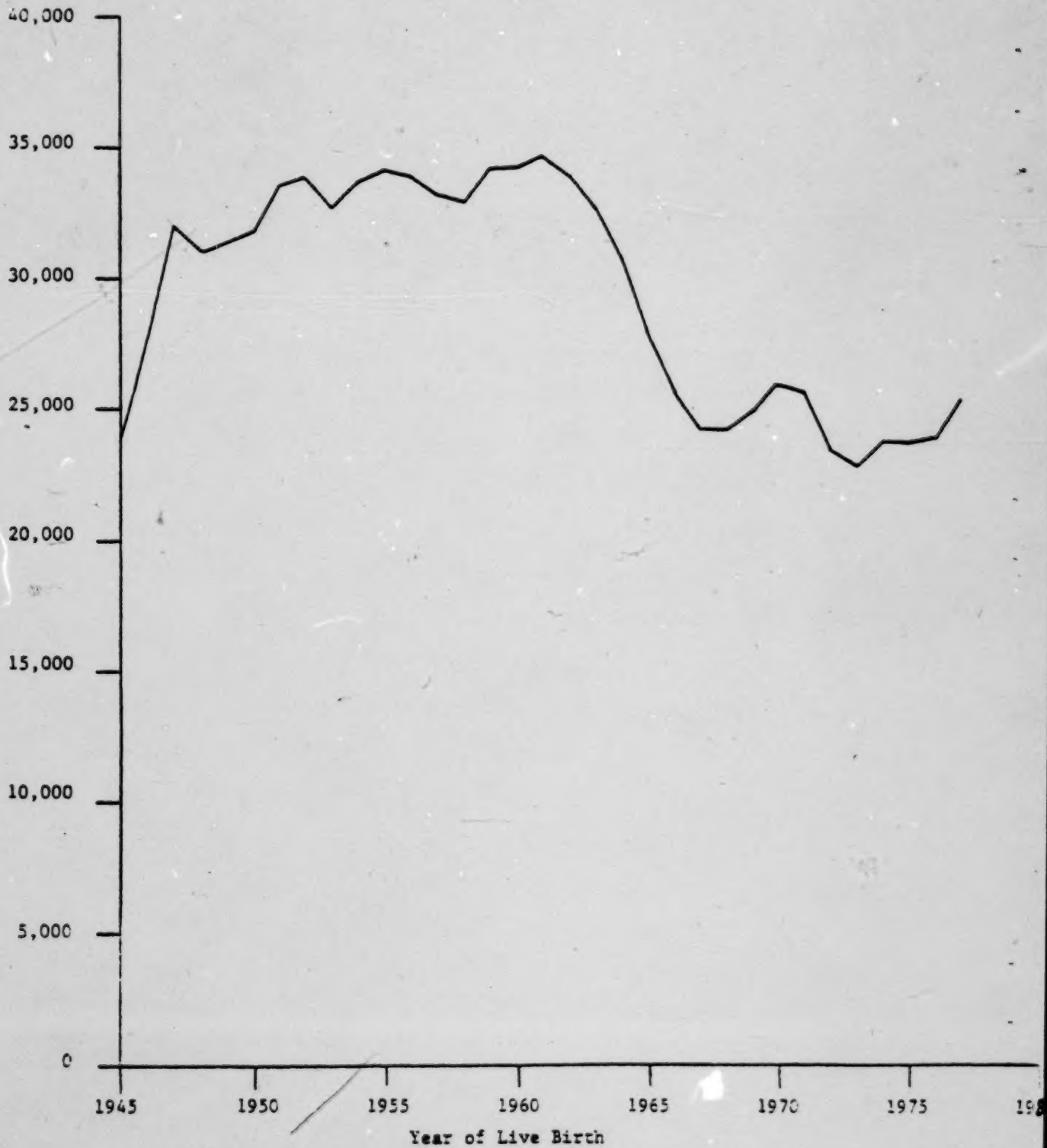
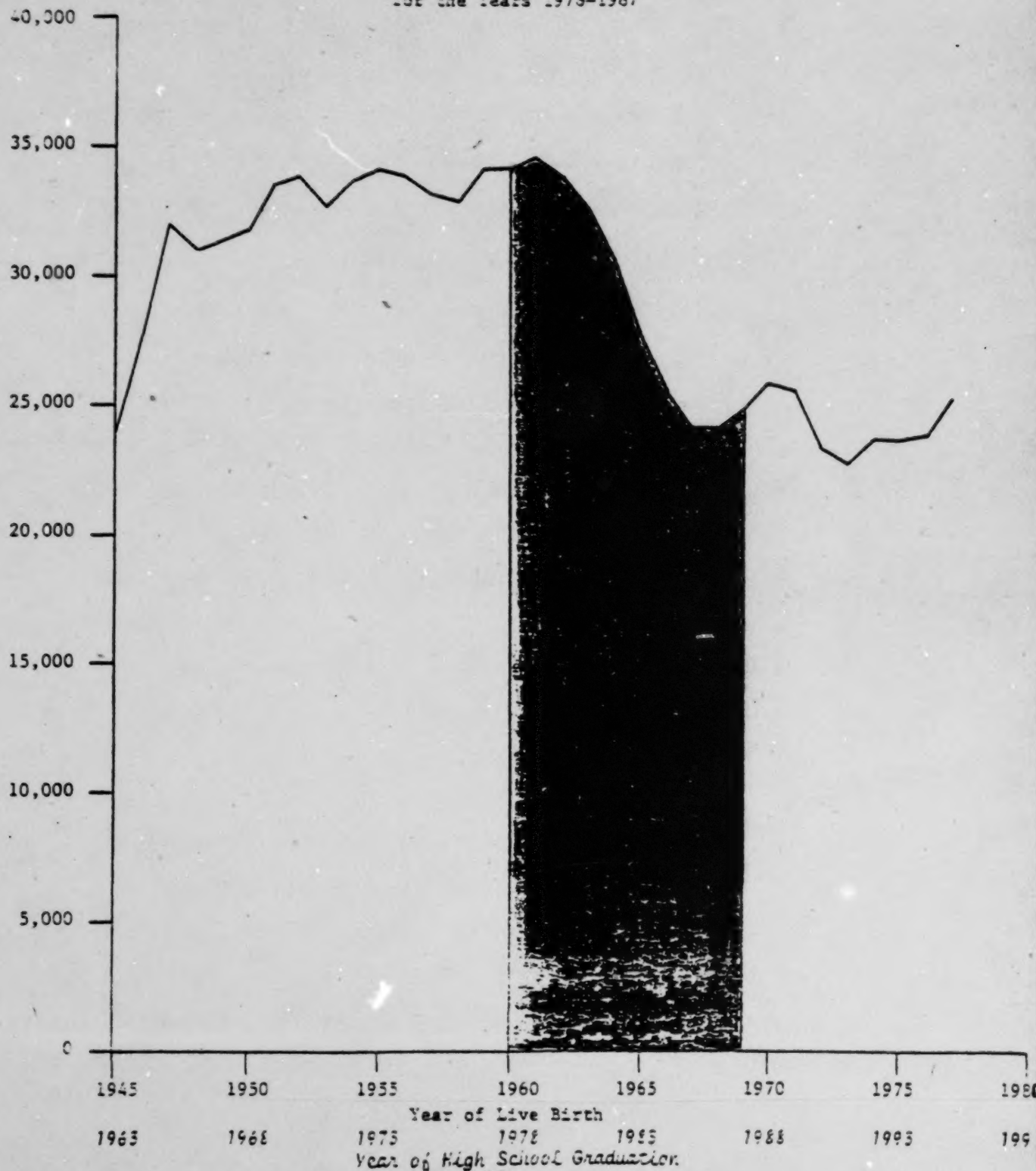


Figure No. 2

Live Births In Nebraska  
For The Years  
1945-1977

Number of  
Live Births

And Impact on  
Postsecondary Education Enrollment  
for the Years 1973-1987



and 1987 after declining in the early 1980's. Lest this increase in the mid-1980's leaves a sense of false hope regarding the reversal in the enrollment decline, it should be noted that after 1988, further enrollment declines can be expected through 1991, but will again increase through the year 1995.

2. Trends Related To Population Forecasts For The Age Group 18-59

The direction of the live birth trend will have its greatest impact on the number of students who enroll in Nebraska postsecondary institutions for the first-time as full-time students (traditionally the freshman class). Within a few years after the decline begins it will impact on all traditional full-time enrollments; those students enrolled who are between the ages of 18 and 24.

Figure No. 3, shows medium series population estimates for the historical years 1970 and 1975 and future years 1980 through 2000 for the age group 18 to 59. As shown on this figure, the expected increase in the population for this age group is continuous through the year 2000; increasing from 726,650 in 1970 to 1,026,027 in the year 2000. The age group 25-59 is also expected to continuously increase from 555,586 in 1970 to 850,929 in 2000. A basic assumption of this report is that this age group (25-59) will support continued growth of part-time and non-award oriented (those

not enrolled for purposes of obtaining a certificate diploma or degree) enrollments.

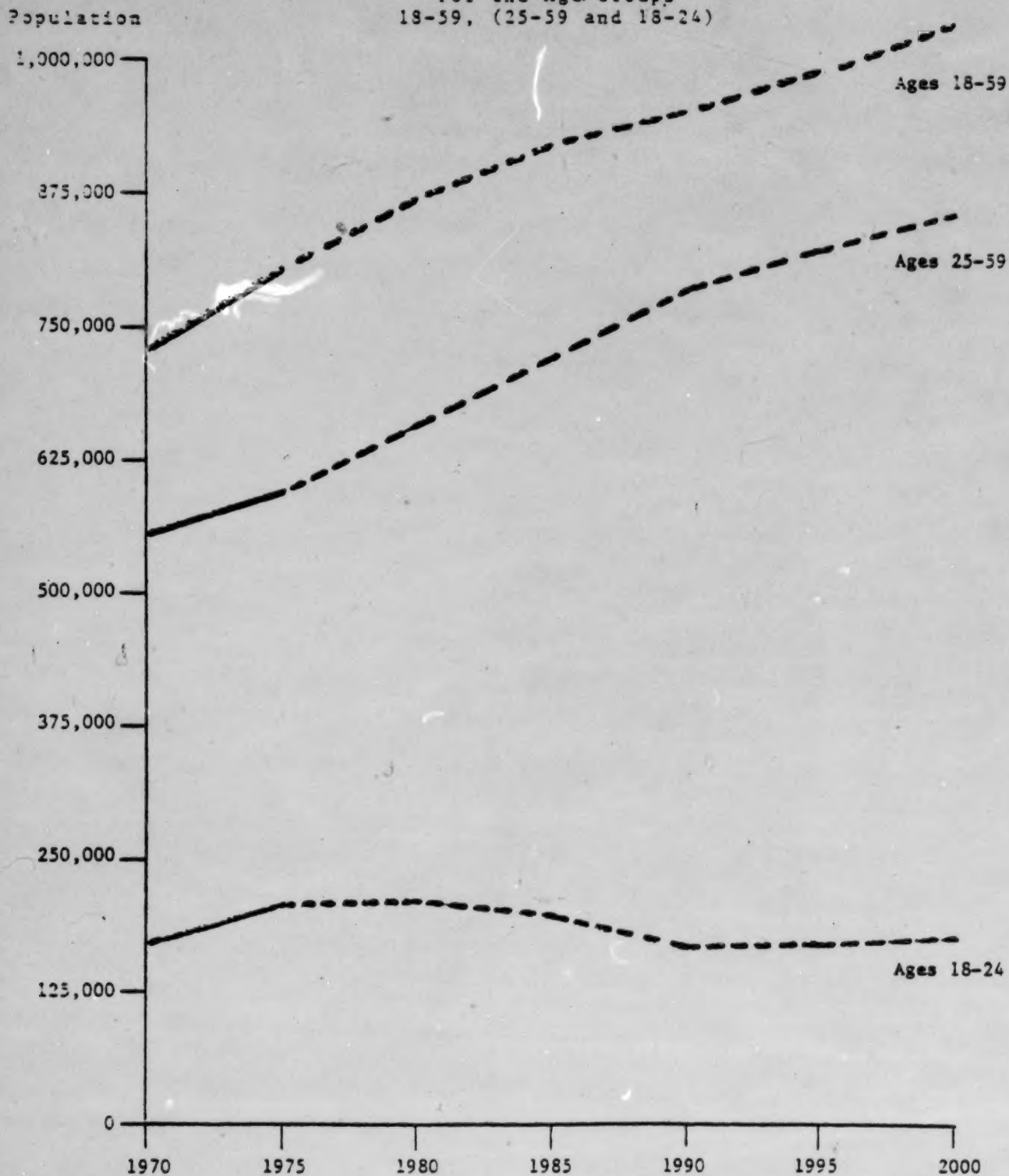
Projected full-time and award-oriented enrollments are less optimistic. Traditionally the 18-24 year-olds have enrolled for these programs. As can be demonstrated by Figure No. 3, the medium series population projections for this age group show an increase of only 4,968 (to 211,560) by 1980. After 1980 the population for the 18-24 year-old age group is expected to decline by almost 21% by 1990 (from 211,560 in 1980 to 167,872 in 1990). Between 1990 and 2000 there is a slight increase (167,872 to 175,098).

Not unexpectedly the population projections for the 18-24 year-old group is patterned after what happened to the number of live births in Nebraska between 1952 and 1977. The population decline between 1980 and 1990 can, within reasonable limits of tolerance, be attributed to the decline in the number of live births without a comparable increase in in-state migration between 1962 and 1972.

This discussion of the population projections for Nebraska, and the related impact on enrollment forecasts for postsecondary education, is presented to support the assumed relationship between Nebraska's population forecasts and postsecondary enrollment projections. This relationship is given further meaning if the 1975 residence data are considered.

Figure No. 3

Nebraska Population Projection  
(Medium Series)  
For the Age Groups  
18-59, (25-59 and 18-24)



Nearly eighty percent (79.75%) of all postsecondary enrollments in Nebraska institutions were residents of the state in 1975. In the public sector slightly more than eighty-five percent (85.21%), of the enrollment was made up of Nebraskans while in the private sector only fifty-four percent (54.44%), were state residents. Thus, the dependency which the public institutions have on the state population for enrollment make them more vulnerable to state population trends than are the independent institutions. It also is clear that the independent schools must continue to draw substantial numbers of students from other states to maintain a stable enrollment, or even moderate declining enrollment. These population data also suggest that the schools located in or near the major metropolitan centers will be less affected by the population trend than those located in the rural areas.

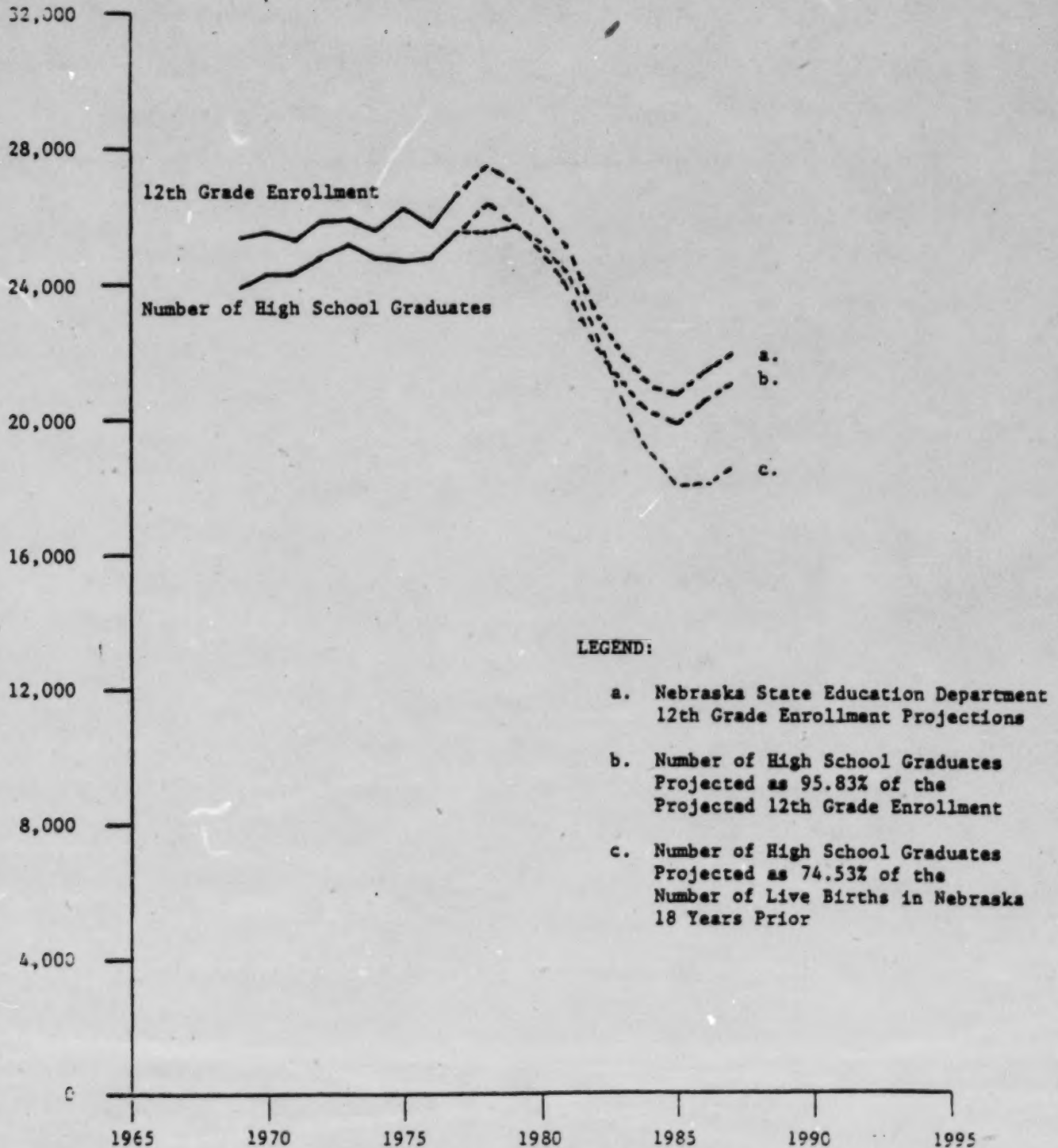
### 3. Trends Related To High School Graduates

The number of students who enroll in postsecondary educational institutions for the first time have traditionally been recent high school graduates. Shown on Figure No. 4 are the historical twelfth grade enrollments for the years 1969 through 1977 and the projected number of twelfth grade students in Nebraska public, private, and state operated secondary schools through 1987 as reported by the Nebraska State Education Department. Plotted below the 12th grade enrollment is the historical number of high school graduates

Figure No. 4

12th Grade  
Enrollment and  
Number of High  
School Graduates

Nebraska Historical and Projected  
Twelfth Grade Enrollment  
and  
Number of High School Graduates



LEGEND:

- a. Nebraska State Education Department 12th Grade Enrollment Projections
- b. Number of High School Graduates Projected as 95.83% of the Projected 12th Grade Enrollment
- c. Number of High School Graduates Projected as 74.53% of the Number of Live Births in Nebraska 18 Years Prior

Year of Enrollment and High School Graduation

(1969-1977) and two projections for the number of high school graduates. The projected decline shown in twelfth grade enrollment between 1978 and 1985 is the difference between 27,480 in 1978 and 20,710 in 1985. This decline in twelfth grade enrollment affects the number of high school graduates and this will in turn affects the number of Nebraska residents who enroll in Nebraska postsecondary institutions for the first-time. In time it will cause a decline in total enrollment at the undergraduate level. This is substantiated by the 1975 residence data which shows that in this year nearly eighty-four percent of the undergraduate award credit students enrolled in Nebraska postsecondary schools were Nebraskans. In addition, of all Nebraskans enrolling in postsecondary education somewhere, some eighty-one percent enroll in Nebraska institutions while nineteen percent enroll in institutions located in other states.

These population related data do not paint a bright picture for the enrollments in postsecondary education after 1980 using traditional concepts and assumptions for enrollment projections. As will be demonstrated below, however, the picture is not as bleak when projections are made emphasizing the role of part-time enrollments in determining total enrollment projections and when non-traditional data for enrollment projections are utilized (the role and mission redefinition information).

## B. Traditional Enrollment Forecasting:

### Trends and Projections

On the following figures only one series of projections are shown for the years 1978 through 1987. Although discussed in more detail in the following section of this report, for purposes of this section, the following should be emphasized. This series of projections is based on fall 1977 enrollment data and high school graduation projections based on State Department of Education twelfth grade enrollment projections. A second series of projections was based on five year weighted averages using enrollment data from the most recent five years and medium projections of high school graduates based on a five year weighted ratio of the historical number of high school graduates to live births eighteen years prior. The numerical values related to each series of projections are reported in Section IV of this report.

#### 1. First-Time Full-Time Enrollments

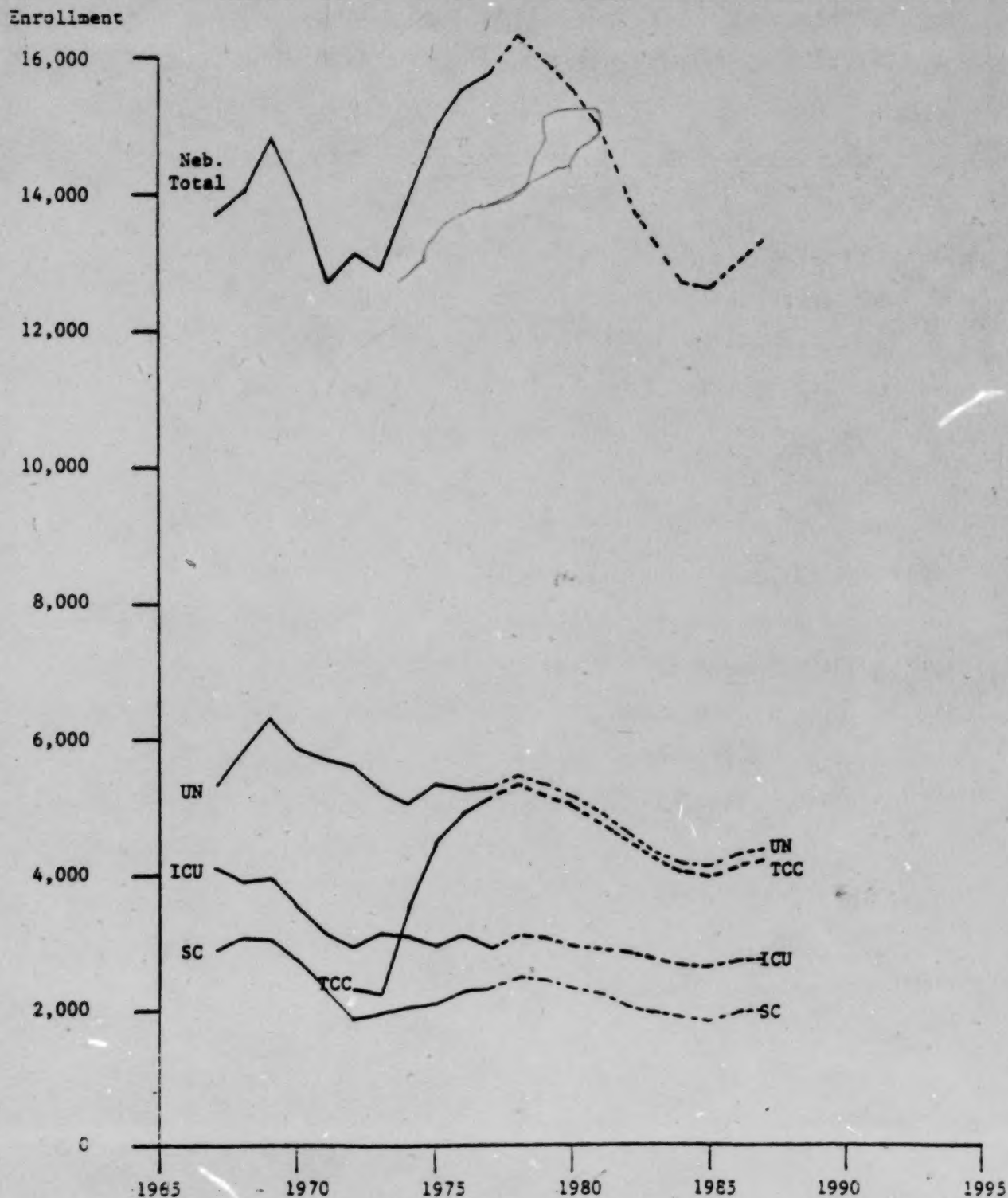
First-time full-time enrollment (those students enrolled full-time who previously have not been enrolled in an institution of postsecondary education) is largely dependent upon the number of students graduating from high school. As Figure No. 5., indicates there has been very little change in the number of first-time full-time enrollments in the last five years (fall 1973-fall 1977), for the University of Nebraska and Nebraska Independent College and University institutional sectors. The increase in first-time full-time enrollment shown for the state are primarily attributed to the growth which has occurred in the Nebraska State College and Technical Community College Sectors. It should be noted that within the past five years technical community college first-time full-time enrollments have increased to the point where they almost equal the first-time full-time enrollment

at the University of Nebraska. If traditional (and conservative) methods of projecting future enrollments of first-time full-time students are used, the technical community colleges will continue to enroll about as many first-time students on a full-time basis, (i.e. those who have never had a postsecondary education experience before), as will the University of Nebraska.

Although slight increases and reasonable stability can be expected in first-time full-time enrollments through 1980, a decline can be expected through 1985 when a modest reversal of this trend is expected to 1987, the last year for which projections have been made. Thus, the trend follows the high school graduation pattern and the live birth curve related to the number of live births in the years 1960 through 1969. The modest increases in first-time full-time enrollments in 1986 and 1987 can be expected to continue another year (1988), but then will begin to decrease through 1991 (following the pattern of live births for the years 1970 through 1973, Figure No. 2) but increase again in the years 1992 through 1995.

The stable projection for the Independent College and University first-time full-time enrollment through 1980 is dependent upon their ability to continue enrolling at least forty-six percent of their first-time full-time enrollments

Figure No. 3  
Historical and Projected  
First-Time Full-Time  
Enrollments



UN = University of Nebr.  
ICU = Independent Colleges

SC = State Colleges  
TCC = Technical Community Colleges

from out-of-state. If this cannot be done, it may be expected that the enrollment of first-time full-time students in this institutional sector will decline more dramatically than what is anticipated and reflected in this projection.

## 2. Full-Time Enrollments

In the two-year technical community colleges, the first-time full-time enrollments comprise at least half of total full-time enrollment. At four-year institutions the first-time full-time enrollment can be as much as a fourth of the total full-time enrollment. The data reflected on Figure No. 6, generally follows, therefore, the pattern of first-time full-time enrollments. Except for the Technical Community College Sector, full-time enrollments have changed very little in recent years. This stability in full-time enrollments is expected to continue with only modest increases until 1979-1980 after which continual enrollment declines can be anticipated through 1985 and then reverse modestly through 1987.

An inherent problem with traditional enrollment projection methodologies used for four-year collegiate institutions (including NEPS), is that the methodology does not work very well for two-year institutions. Even though only slight enrollment increases are demonstrated for the sector, all evidence of a subjective nature indicates that these schools may continue

Figure No. 6

Historical and Projected  
Full-Time Enrollments

Enrollment

56,000

49,000

42,000

35,000

28,000

21,000

14,000

7,000

0

Nebr. Total

UN

ICU

SC

TCC

IC

TCC

SC

1965

1970

1975

1980

1985

1990

1995

Year

UN = University of Nebraska

ICU = Independent Colleges

SC = State Colleges

TCC = Technical Community College

to increase their enrollments more than what is shown here. The question is not so much whether they will or will not increase, but a question of how much and for how long. Thus, what appears to be precipitous declines for Nebraska as a whole should be viewed with caution since there has been and will continue to be problems in making reasonable projections for the technical community colleges. Even though these qualifications for the trend shown must be made for the projected statewide and technical community college full-time enrollments, the forecasts of full-time enrollment for the other institutional sectors seem plausible.

While the University of Nebraska continues to be the largest institutional sector in postsecondary education in Nebraska in terms of full-time enrollment, the second largest sector is that of the Independent College and University. This trend should continue to occur as long as the independent schools are as successful in the future of enrolling out-of-state students as they have been in the past. If the independent colleges and universities become more dependent on Nebraskans for their enrollments than they already are, this sector could decline in enrollment faster than what is predicted. Likewise, if the public institutions do a better job of enrolling out-of-state students than they have in the past, the enrollment decline forecasted here could be off-set to some extent. The method of establishing such an effort

involves major policy decisions that need to be considered by the respective governing boards, the Legislature and the Governor.

### 3. Part-Time Enrollments

In recent years there has been an increase in the number of part-time students enrolled in Nebraska postsecondary education. This increase is reflected on Figure No. 7. The majority of this increase can be attributed to enrollments at the University of Nebraska and the technical community colleges.

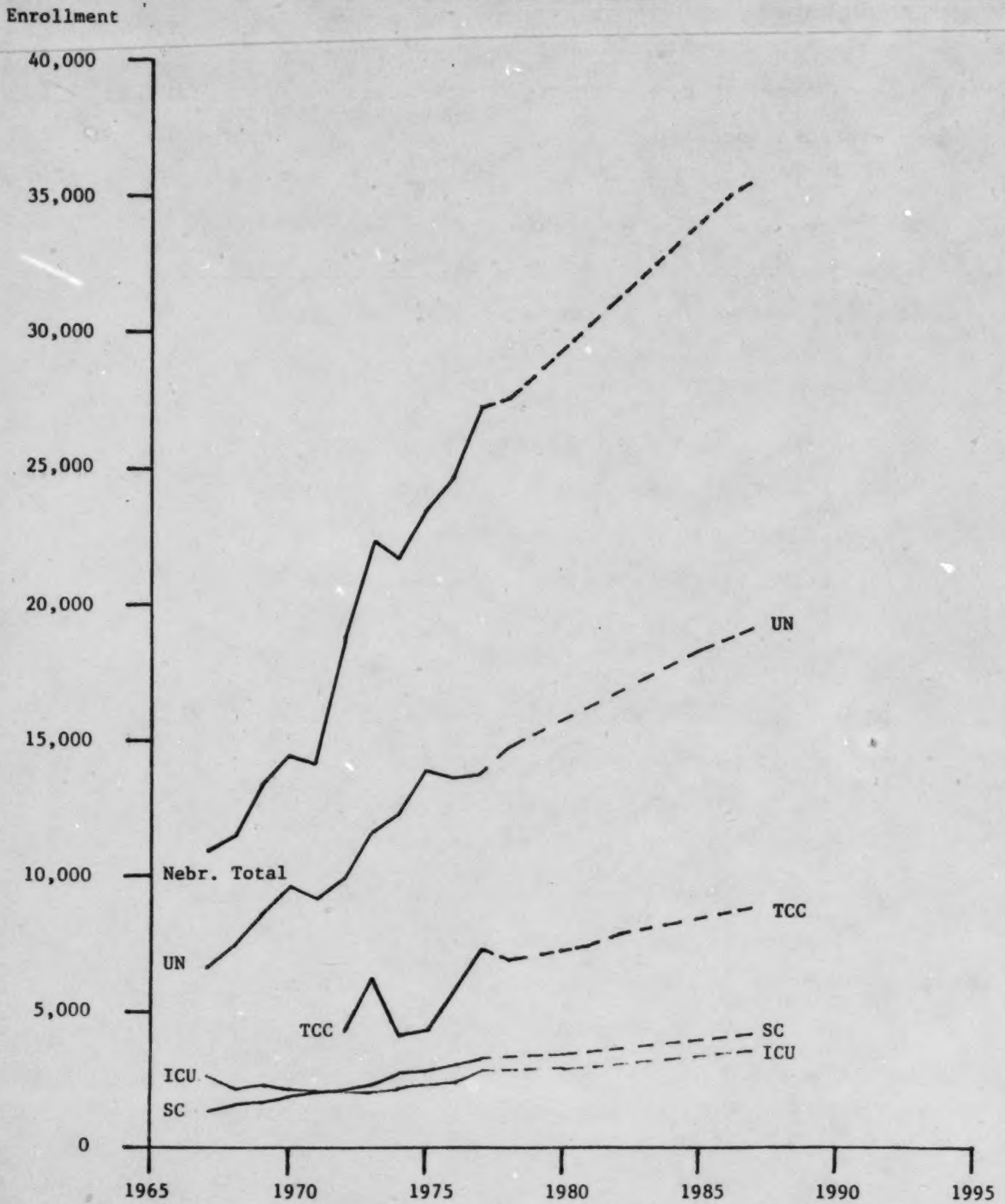
A major problem related to part-time enrollments is definitional. In some instances, the increased part-time enrollment is due to a reduction of the number of hours taken by students while in other instances, it is a result of new populations enrolling on a part-time bases which are being served by the schools. In either case, the end result is the same: the production of fewer credit hours by the faculty and the consumption of fewer hours by the students than if these students were enrolled full-time. Thus, the growth in part-time enrollment can be considered healthy but the impact on the institutions, in terms of resources required to sustain this growth, is somewhat different than if this growth were being projected in full-time enrollment.

Figure No. 7 reflects the increased numbers of persons enrolling part-time for award (certificate, diploma, degree)

related instruction. These persons are not the enrollment associated with non-award or non-credit adult and continuing education instruction.

In the last ten years (fall 1968-fall 1977), the number of students enrolled part-time has increased by 15,746 students; an increase of 137% while full-time enrollments for the same period increased by 5,375 or 10.86%. In 1970, the part-time enrollment in Nebraska postsecondary institutions was at a level equivalent to 4.41% of the medium series population estimates for the age group 25-44; by 1975 that ratio had increased to 6.49%. Although only modest increases are shown in the forecasts for part-time enrollment in terms of a percentage increase of the population (6.49% of the 25-44 age group in 1975 to 6.83% of the population in 1985), the number of persons involved is expected to increase rather dramatically due to the increased numbers of persons in this age group. Using historical ratios of part-time enrollment to population, therefore, creates a conservative estimate of the percentage of the population at large enrolled part-time, still the numerical increase is substantial. Any adjustment in that historical pattern, either an increase or reduction in the anticipated ratios, will cause these forecasts to be too low (increased ratio), or too high (reduced ratio).

Figure No. 7  
Historical and Projected  
Part-Time Enrollment



It should be noted that it is not assumed here that the part-time enrollments consist only of persons between the ages of 25 and 44. This was assumed to be the case for the major portion of the part-time enrollment and the only reasonable interpretation is that the number of students enrolled part-time is the equivalent to some percentage of the 25-44 year old population.

The part-time increases for the University of Nebraska are associated with the expectation that the University of Nebraska-Omaha will continue enrolling more part-time students than the number enrolled full-time. Their location in a major metropolitan area where population increases can be anticipated for the age group 25-44 provides support for this growth at the University of Nebraska-Omaha. Recent part-time enrollment increases at the Medical Center also are related to the population growth in the city of Omaha as well as the nature of the programs offered at the Medical Center. Most increases in part-time enrollment at the University of Nebraska-Lincoln are related to the increased population in Lincoln as well as the movement toward taking reduced course loads by students enrolled at UNL.

Increases in the Technical Community College Sector are partly related to the initiation of programs directed toward part-time clientele. The traditional methodology used for this series of projections has questionable utility for application with technical community colleges as verified by this set of projections. All reasonable evidence seems to suggest that part-time enrollments will continue to increase but the changes thus far have been such that it is difficult to discern just how much growth will occur in this sector and at what point in time the sector can be expected to stabilize its pattern of growth. It is anticipated that it will require another five to ten years of technical community college development before firm projections can be made.

#### 4. Total Enrollments

The projected declines in full-time enrollment and anticipated increases in part-time enrollment counterbalance each other when combined to project the total number of students expected to be enrolled in the future. A decline in total enrollment is still anticipated but the decline is less severe than what may be expected if only full-time enrollment projections were reviewed.

In the last five years total enrollment in Nebraska postsecondary education increased by some fifteen percent (increasing from 71,214 in the fall of 1973 to 82,085 in the

fall of 1977). For the same period, full-time enrollment increased twelve percent while part-time enrollments increased twenty-two percent.

Total enrollment changes, in terms of percentages for each institutional sector during this five year period are shown on Table No. 1.

Table No. 1  
Percentage Change In Total, Full-Time  
and Part-Time Enrollments  
for Nebraska and Nebraska Institutional Sectors  
for the Period Fall 1973 to Fall 1977

|                                                   | <u>Percent Change between fall 1973 and fall 1977</u> |                  |                  |
|---------------------------------------------------|-------------------------------------------------------|------------------|------------------|
|                                                   | <u>Total</u>                                          | <u>Full-Time</u> | <u>Part-Time</u> |
| University of Nebraska                            | + 7.59%                                               | + 2.33%          | +18.91%          |
| Nebraska State Colleges                           | +14.56%                                               | + 5.68%          | +43.27%          |
| Nebraska Technical Community<br>Colleges          | +62.44%                                               | +119.25%         | +19.83%          |
| Nebraska Independent Colleges<br>and Universities | + 5.74%                                               | - 0.26%          | +39.64%          |

While the percentage of change provides one measure of index of a change, another is a review of the numerical change in enrollment between the Fall of 1973 and Fall 1977. The enrollment changes in terms of the number of students enrolled are shown on Table No. 2.

Table No. 2  
Numerical Change in Total, Full-Time and  
Part-Time Enrollments for Nebraska  
and Nebraska Institutional Sectors  
For the Period Fall 1973 to Fall 1977

|                                                   | <u>Numerical Change between fall 1973 and Fall 1977</u> |                  |                  |
|---------------------------------------------------|---------------------------------------------------------|------------------|------------------|
|                                                   | <u>Total</u>                                            | <u>Full-Time</u> | <u>Part-Time</u> |
| University of Nebraska                            | +2,764                                                  | +578             | +2,186           |
| Nebraska State Colleges                           | +1,425                                                  | +425             | +1,000           |
| Nebraska Technical Community<br>Colleges          | +6,677                                                  | +5,465           | +1,212           |
| Nebraska Independent Colleges<br>and Universities | + 777                                                   | - 30             | + 807            |

The forecast for the future shows that with the increases that can be expected in part-time enrollment, that total enrollments will increase slightly and stabilize through 1980 and then begin to decline through 1984-85 at which time a reversal in the trend can be expected through 1987.

The historical enrollment and forecasts for the institutional sectors are shown on Figure No. 8. The enrollment counts related to this figure are shown on Table No. 3.

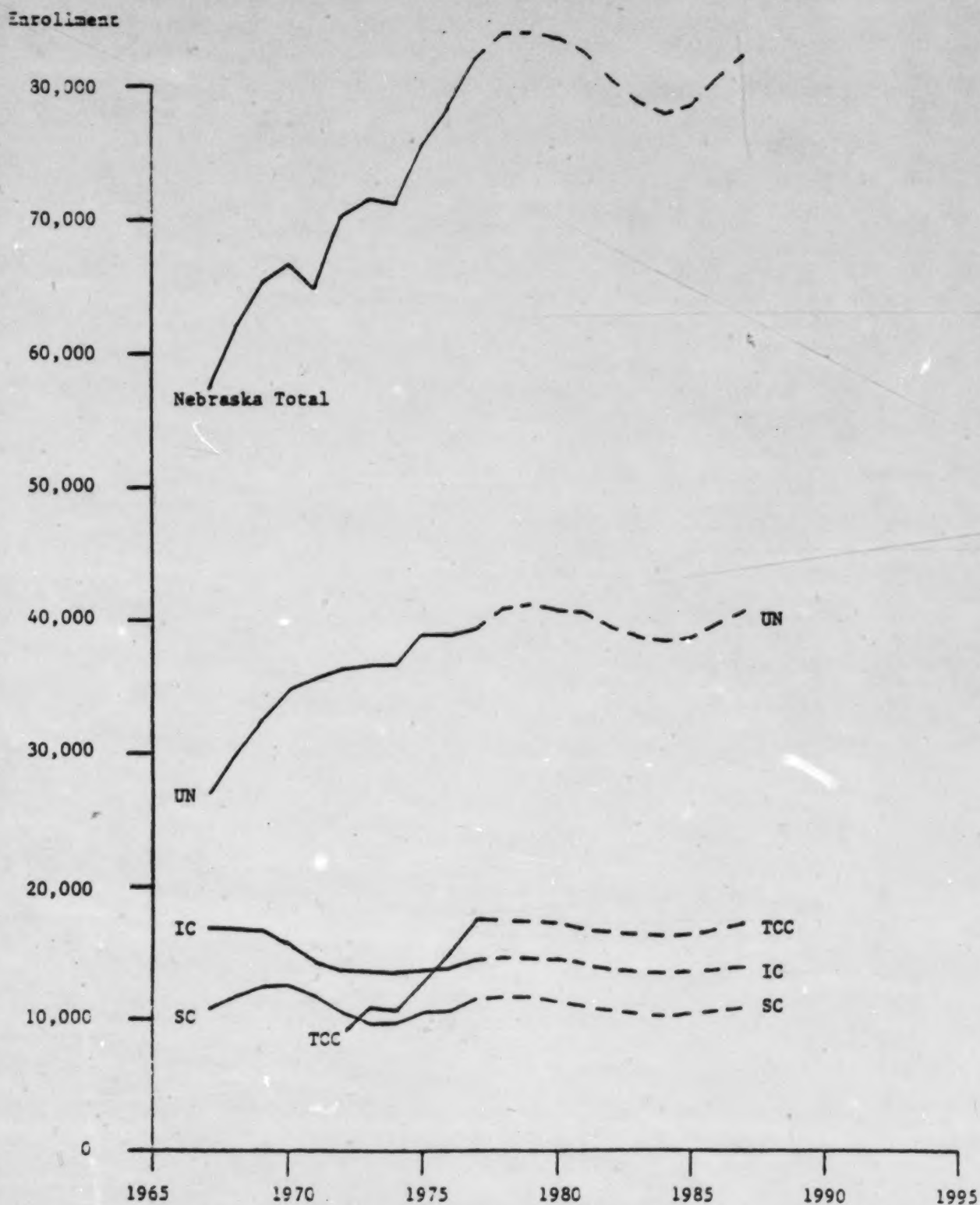
Actual enrollments in the future are expected to fall somewhere between the two series of projections. Where precision may be lacking in the projected enrollment numbers, the trend appears to be substantiated when population data are taken into account.

#### 5. Summary

The trends shown in this section and the related projections were made using data available from opening fall enrollments, resulting in a reasonably traditional methodology. The level of confidence which may be assigned to these projections decreases as more detail is forecasted. Thus, more confidence can be given to the projections made for the entire state than can be assigned to individual institutional sectors. Likewise, the predictions made regarding total enrollments can be accepted with a higher level of confidence than the predictions made for full-time and part-time enrollments. Also, the direction enrollments are anticipated to go past 1979-80 and the trends related to full-time and part-time enrollment can be accepted more confidently than can the precise number of enrollments projected.

Generally, all sectors can expect modest growth in full-time, award related enrollments through 1979-80 but then expect declines through 1985-86, when slight increases can be expected in 1986-87. Although called into question by some, it is expected that part-time award related enrollment

Figure No. 3  
Historical and Projected  
Total Enrollment



UN = University of Nebraska  
ICU = Nebraska Independent Colleges  
SC = Nebraska State Colleges  
TCC = Nebraska Technical Com. Colleges

Table No. 3  
 Historical and Projected Total Enrollments  
 For Nebraska and Nebraska Institutional Sectors  
 For the Period Fall 1973 to Fall 1987

Historical and Forecasted Total Enrollments, Fall 1973-87

Historical (top figure)  
 Series #1 Projection (middle figure)  
 Series #2 Projection (bottom figure)

| <u>Year</u> | <u>Total</u> | <u>UN</u> | <u>SC</u> | <u>TCC</u> | <u>IC</u> |
|-------------|--------------|-----------|-----------|------------|-----------|
| 1973        | 71,214       | 36,421    | 9,790     | 10,694     | 13,537    |
|             | ---          | ---       | ---       | ---        | ---       |
|             | ---          | ---       | ---       | ---        | ---       |
| 1974        | 71,021       | 36,552    | 9,776     | 10,413     | 13,457    |
|             | ---          | ---       | ---       | ---        | ---       |
|             | ---          | ---       | ---       | ---        | ---       |
| 1975        | 75,429       | 38,925    | 10,265    | 12,600     | 13,639    |
|             | ---          | ---       | ---       | ---        | ---       |
|             | ---          | ---       | ---       | ---        | ---       |
| 1976        | 78,222       | 38,920    | 10,489    | 14,930     | 13,883    |
|             | ---          | ---       | ---       | ---        | ---       |
|             | ---          | ---       | ---       | ---        | ---       |
| 1977        | 82,085       | 39,185    | 11,215    | 17,371     | 14,314    |
|             | ---          | ---       | ---       | ---        | ---       |
|             | ---          | ---       | ---       | ---        | ---       |
| 1978        | ---          | ---       | ---       | ---        | ---       |
|             | 83,913       | 40,931    | 11,371    | 17,198     | 14,413    |
|             | 81,815       | 40,241    | 10,911    | 16,447     | 14,216    |
| 1979        | ---          | ---       | ---       | ---        | ---       |
|             | 83,918       | 41,058    | 11,305    | 17,188     | 14,367    |
|             | 83,078       | 40,919    | 11,079    | 16,725     | 14,355    |
| 1980        | ---          | ---       | ---       | ---        | ---       |
|             | 83,224       | 40,790    | 11,141    | 17,052     | 14,241    |
|             | 83,026       | 40,926    | 11,033    | 16,746     | 14,321    |

|      | <u>Total</u>            | <u>UN</u>               | <u>SC</u>               | <u>TCC</u>              | <u>IC</u>               |
|------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| 1981 | ---<br>82,304<br>82,305 | ---<br>40,395<br>40,531 | ---<br>10,935<br>10,859 | ---<br>16,888<br>16,630 | ---<br>14,086<br>14,185 |
| 1982 | ---<br>80,108<br>80,492 | ---<br>39,328<br>39,686 | ---<br>10,532<br>10,538 | ---<br>16,472<br>16,333 | ---<br>13,775<br>13,935 |
| 1983 | ---<br>78,688<br>77,393 | ---<br>38,650<br>38,129 | ---<br>10,251<br>10,001 | ---<br>16,220<br>15,758 | ---<br>13,567<br>13,505 |
| 1984 | ---<br>77,987<br>75,242 | ---<br>38,326<br>37,055 | ---<br>10,099<br>9,616  | ---<br>16,112<br>15,379 | ---<br>13,450<br>13,192 |
| 1985 | ---<br>78,381<br>74,126 | ---<br>38,562<br>36,439 | ---<br>10,109<br>9,414  | ---<br>16,236<br>15,232 | ---<br>13,474<br>13,041 |
| 1986 | ---<br>80,338<br>74,986 | ---<br>39,576<br>36,981 | ---<br>10,383<br>9,484  | ---<br>16,675<br>15,409 | ---<br>13,704<br>13,112 |
| 1987 | ---<br>82,088<br>76,518 | ---<br>40,487<br>37,792 | ---<br>10,623<br>9,686  | ---<br>17,065<br>15,749 | ---<br>13,913<br>13,291 |

will continue to increase through 1987, providing for some counter-balances to the declines in full-time enrollment. This situation suggests, therefore, that only modest declines in total enrollment for the 1979-80 through 1985-86 academic years are to be expected.

As stated above the projections shown for the technical community colleges are probably underestimated. Traditional methods for projecting enrollments for these institutions have been, and will probably continue to be, inadequate as their schools serve a different purpose in most respects and a different clientele than the four-year institutions. In the future a different method will undoubtedly be necessary to forecast enrollments for the Technical Community College Sector as they are unique.

First-time full-time enrollments can be expected to follow the pattern related to the number of 18-24 year olds in the population and the number of Nebraska high school graduates. This condition not only will affect Nebraska but the nation as a whole as suggested by Henderson in "Change in Enrollment by 1985." \* The trend suggests these will be moderate increases in first-time full-time enrollments through 1979-80, but declines until 1984-85 after which a slight increase can be expected.

\* A summary of this report is attached to this document (Appendix 2)

### C. Non-Traditional Enrollment Trends

To suggest that this section is devoted to trends and projections of non-traditional enrollments is in part misleading. The non-traditional aspect of this discussion is the data used and the concepts presented, i.e. fiscal year unduplicated headcount enrollment and degree (award related) versus non-degree (non-award related) instructional components of the institutional program offerings. The projections are of unduplicated headcount enrollment as opposed to full and part-time enrollment and for the complete fiscal year as opposed to a "snapshot" of the fall semester of a traditional academic year.

The data were collected by the Postsecondary Education Advisory Committee of the Nebraska Legislature for their study regarding role and mission redefinition for the public postsecondary institutions, sectors, and areas. Projections made here, therefore, do not include the Independent College and University Sector since data were not collected from these institutions as they were not a part of the study. The Commission wishes to express its appreciation to the Legislative Fiscal Office for making these data available as they add a new and different dimension to enrollment forecasting.

The data are based on public institutional reports of their unduplicated headcount enrollment (i.e. the number of different persons enrolled for programs, for the fiscal years (July 1 through the following June 30th), 1973-74 to

1976-77. The enrollments were reported according to National Center for Higher Education Management Systems (NCHEMS), Program Classification Structure (PSC), sub-program categories 1.1. through 1.9. The sub-programs related to degree or award related instruction are: 1.1., General Academic Programs; 1.2. Professional Career Oriented Programs; 1.3., Vocational/ Technical Programs; and, 1.4., Requisite Preparatory/ Remedial Programs. The subprograms related to non-degree or non-award related instruction are: 1.5., General Studies; 1.6., Occupation Related Programs; 1.7., Social Roles and Interaction Studies; 1.8., Home and Family Life; and, 1.9., Personal Interest and Leisure. Definition of these subprograms may be found in the NCHEMS Field Review Edition of Technical Report 101.

Table No. 4 shows the historical data which were collected for the fiscal years 1973-74 through 1976-77. The first three columns are reports of enrollment in the award related instructional programs. The ratio of unduplicated headcount to the estimated population for the 18-24 year-old age group shows that these enrollments have remained reasonably stable over the last four years for the University and state colleges. Substantial growth, on the other hand, has occurred in the Technical Community College Sector; increasing from the equivalent of 5.73% of the 18-24 year-old population in

Table No. 4

Estimated Population and Fiscal Year  
Unduplicated Headcount Enrollment Reported by Public  
Institutional Sectors for the Role and  
Mission Redefinition Study

|                 | Estimated<br>Population<br>18-24 | PCS 1.1-1.4<br>Unduplicated<br>Headcount<br>for each Sect. | Ratio of<br>Headcount<br>to Pop. | Estimated<br>Population<br>25-59 | PCS 1.5-1.9<br>Unduplicated<br>Headcount<br>for each Sect. | Ratio of<br>Headcount<br>to Popu. | Estimated<br>Population<br>18-59 | PCS 1.1-1.9<br>Unduplicated<br>Headcount<br>for Each Sect. | Ratio of<br>Headcount<br>to Pop. |
|-----------------|----------------------------------|------------------------------------------------------------|----------------------------------|----------------------------------|------------------------------------------------------------|-----------------------------------|----------------------------------|------------------------------------------------------------|----------------------------------|
| 1973-74         | 199,488                          | 71,808                                                     | 35.99%                           | 586,874                          | 78,117                                                     | 13.31%                            | 786,359                          | 149,925                                                    | 19.07%                           |
| Univ. of Nebr.  |                                  | 44,256                                                     | 22.18%                           |                                  | 61,324                                                     | 10.45%                            |                                  | 105,580                                                    | 13.43%                           |
| Nebr. St. Col.  |                                  | 16,124                                                     | 8.08%                            |                                  | 1,754                                                      | 0.30%                             |                                  | 17,878                                                     | 2.27%                            |
| Tech. Com. Col. |                                  | 11,428                                                     | 5.73%                            |                                  | 15,039                                                     | 2.56%                             |                                  | 26,467                                                     | 3.37%                            |
| 1974-75         | 206,592                          | 77,250                                                     | 37.39%                           | 594,694                          | 115,635                                                    | 19.44%                            | 801,286                          | 192,885                                                    | 24.07%                           |
| Univ. of Nebr.  |                                  | 45,844                                                     | 22.19%                           |                                  | 90,499                                                     | 15.22%                            |                                  | 136,343                                                    | 17.01%                           |
| Nebr. St. Col.  |                                  | 16,697                                                     | 8.08%                            |                                  | 2,210                                                      | 0.37%                             |                                  | 18,907                                                     | 2.36%                            |
| Tech. Com. Col. |                                  | 14,709                                                     | 7.12%                            |                                  | 22,926                                                     | 3.85%                             |                                  | 37,635                                                     | 4.70%                            |
| 1975-76         | 207,586                          | 83,150                                                     | 40.06%                           | 606,838                          | 105,068                                                    | 17.32%                            | 814,423                          | 188,218                                                    | 23.11%                           |
| Univ. of Nebr.  |                                  | 47,674                                                     | 29.97%                           |                                  | 47,876                                                     | 7.89%                             |                                  | 95,550                                                     | 11.73%                           |
| Nebr. St. Col.  |                                  | 16,672                                                     | 8.03%                            |                                  | 2,465                                                      | 0.41%                             |                                  | 19,137                                                     | 2.35%                            |
| Tech. Com. Col. |                                  | 18,804                                                     | 9.06%                            |                                  | 54,727                                                     | 9.02%                             |                                  | 73,531                                                     | 9.03%                            |
| 1976-77         | 208,580                          | 82,609                                                     | 39.60%                           | 618,982                          | 117,723                                                    | 19.02%                            | 827,560                          | 200,332                                                    | 24.21%                           |
| Univ. of Nebr.  |                                  | 42,616                                                     | 20.43%                           |                                  | 53,319                                                     | 8.62%                             |                                  | 95,935                                                     | 11.59%                           |
| Nebr. St. Col.  |                                  | 16,987                                                     | 8.14%                            |                                  | 3,613                                                      | 0.58%                             |                                  | 20,600                                                     | 2.49%                            |
| Tech. Com. Col. |                                  | 23,006                                                     | 11.03%                           |                                  | 60,791                                                     | 9.82%                             |                                  | 83,797                                                     | 10.13%                           |

Award (Degree Related)

- PSC 1.1. General Academic  
1.2. Professional Career  
1.3. Vocational/Technical  
1.4. Requisite Preparatory/Remedial

Nonaward (Non-Degree Related)

- PCS 1.5. General Studies  
1.6. Occupational Related  
1.7. Social Roles/Interaction  
1.8. Home and Family Life  
1.9. Personal Interest and Leisure

1973-74 to 11.03% of that population by 1976-77. (The stability in award related unduplicated headcount enrollment for the University and state colleges and increased enrollment at the technical community colleges can be related to the same situation reported earlier for full-time enrollments.) The total unduplicated headcount award related enrollment for the last two fiscal years for all public institutional sectors has been equal to approximately forty-percent of the estimated 18-24 year-old population.

The middle three columns of Table No. 4. reflect the enrollments in what may be considered the area of "Life-long learning," or "Adult and Continuing Education." (The increased enrollment in this area reasonably reflects the changes which have occurred in part-time enrollments presented earlier in this report.) The ratios shown are based on population estimates for the 25-59 year-old age group.

When related to the population projections for the age groups 18-24 and 25-59 respectfully, these data suggest that, in the future, should these ratios remain what they were in 1976-77 that the award related enrollments can be expected to decline after 1980 and the non-award related enrollments can be expected to continually increase.

Of particular note is that the approximate number of different persons who came into contact with a public postsecondary educational activity or service between July 1, 1976 and July 30, 1977 was representative of approximately one out-

of every four (24.21%) Nebraskans between the ages of 18 and 59 (last three columns of Table No. 4). By public institutional sectors this breaks down to 11.59% of that population at the University of Nebraska, 2.49% at the Nebraska State Colleges, and 10.13% at the Nebraska Technical Community Colleges. Even though this represents a sizable proportion of the state population, it does give evidence of the fact that there is still a great number of persons who are not making contact with a postsecondary educational service or activity. It is anticipated that much of this projected growth in service will occur in the Technical Community College Sector and in the non-award related instructional program area.

The following figures (Figure Nos. 9, 10, and 11), are the result of plotting into the future anticipated unduplicated headcount fiscal year enrollments for the three public postsecondary institutional sectors using the ratios shown on Table No. 4, for fiscal year 1976-77.

One advantage in providing these data is that they provide some reasonable index of how many persons, in terms of equivalents of the Nebraska population, who are benefitting from public postsecondary educational activities and services. The disadvantage is that these data do not show what is happening with respect to all of postsecondary education, i.e. the data for the independent colleges and universities and private vocational schools are not included. Another possible use of these data is that the number of earned credit hours

and credit hours and contact hours related to these unduplicated headcount enrollments are available for purposes of forecasting credit hour production (on an earned basis as opposed to on enrolled basis). Utilization of these data would then make it possible, within reason, to project end of term (as opposed to projected enrolled) full-time equivalent enrollments. Although this potential existed, this kind of projection was not made; only unduplicated headcount enrollments were forecasted. The continued collection of fiscal year credit and contact hour production does, however, make the latter form of enrollment projections a possibility.

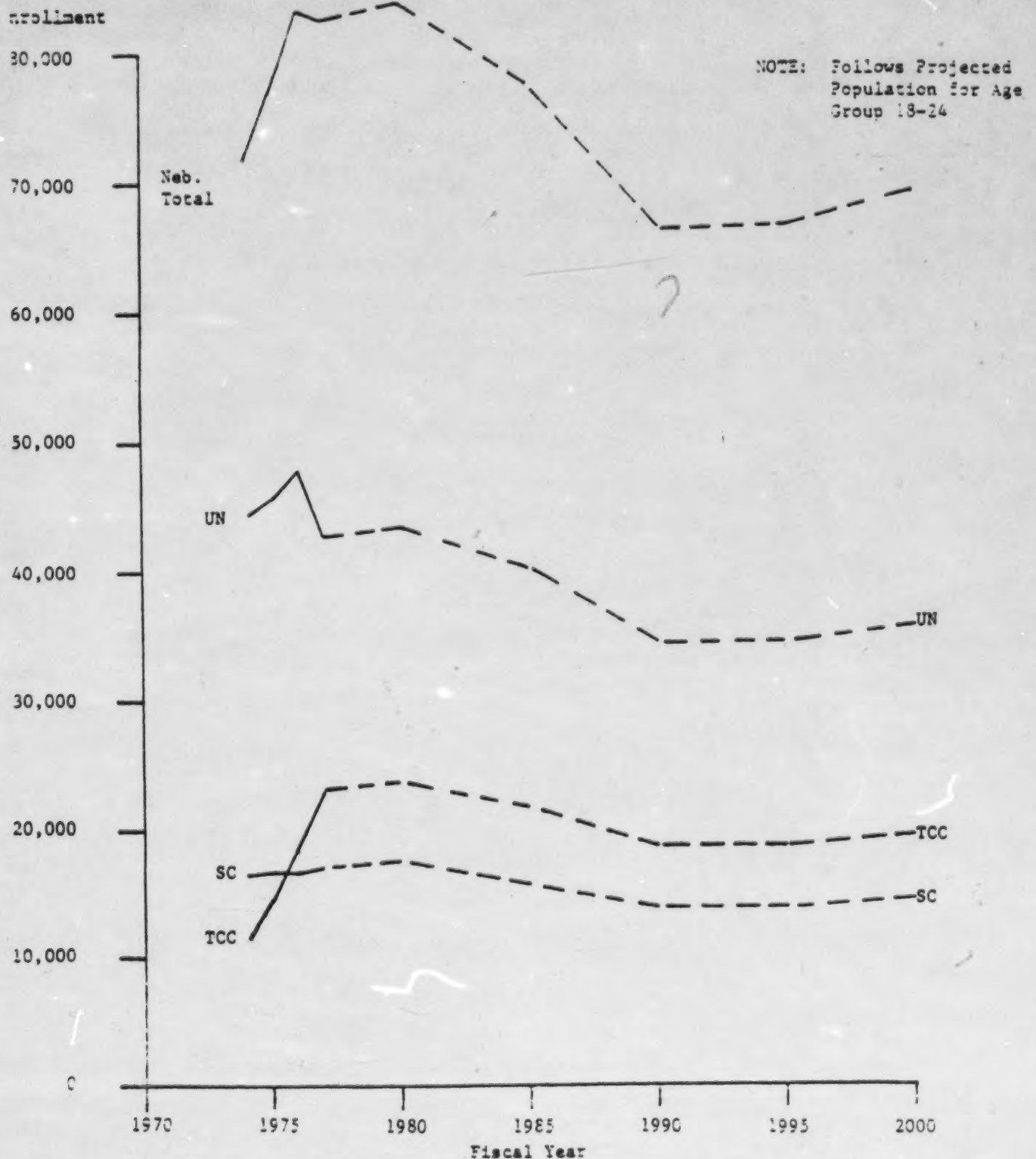
Another disadvantage of these data is that since this is a first attempt at reporting and using these kind of data, the reliability of these numbers may be questioned. This is a first attempt at projecting fiscal year unduplicated headcount enrollments and should, therefore, be reviewed and interpreted with caution.

#### 1. Award Related Instructional Trends

As stated earlier, it is assumed that the enrollments in certificate, diploma, and degree related programs will follow the population patterned related to 18-24 year olds (Figure No. 9). If this is the case, it can be assumed with reasonable confidence that the enrollment for these programs will increase slightly through 1980, but decline thereafter through 1990 when they will stabilize through 1995 and modestly increase afterwards to the year 2000.

Figure No. 9

Historical and Projected Fiscal Year Unduplicated Headcount Enrollment  
For Award Related Instructional Programs at the Public Institutional Sectors



UN = University of Nebraska  
SC = State Colleges

TCC = Technical Community Colleges

These projections are based on the 1976-77 ratios reported on Table No. 4. Thus, the projections reflect that the number of different persons enrolled in award related programs in the public institutions will be equivalent to approximately 39.60% of the Nebraska population between the ages of 18 and 24. Some 20.43% of this group will be the equivalent number enrolled in the University of Nebraska, 8.14% in the Nebraska State Colleges, and 11.03% in the Nebraska Technical Community Colleges.

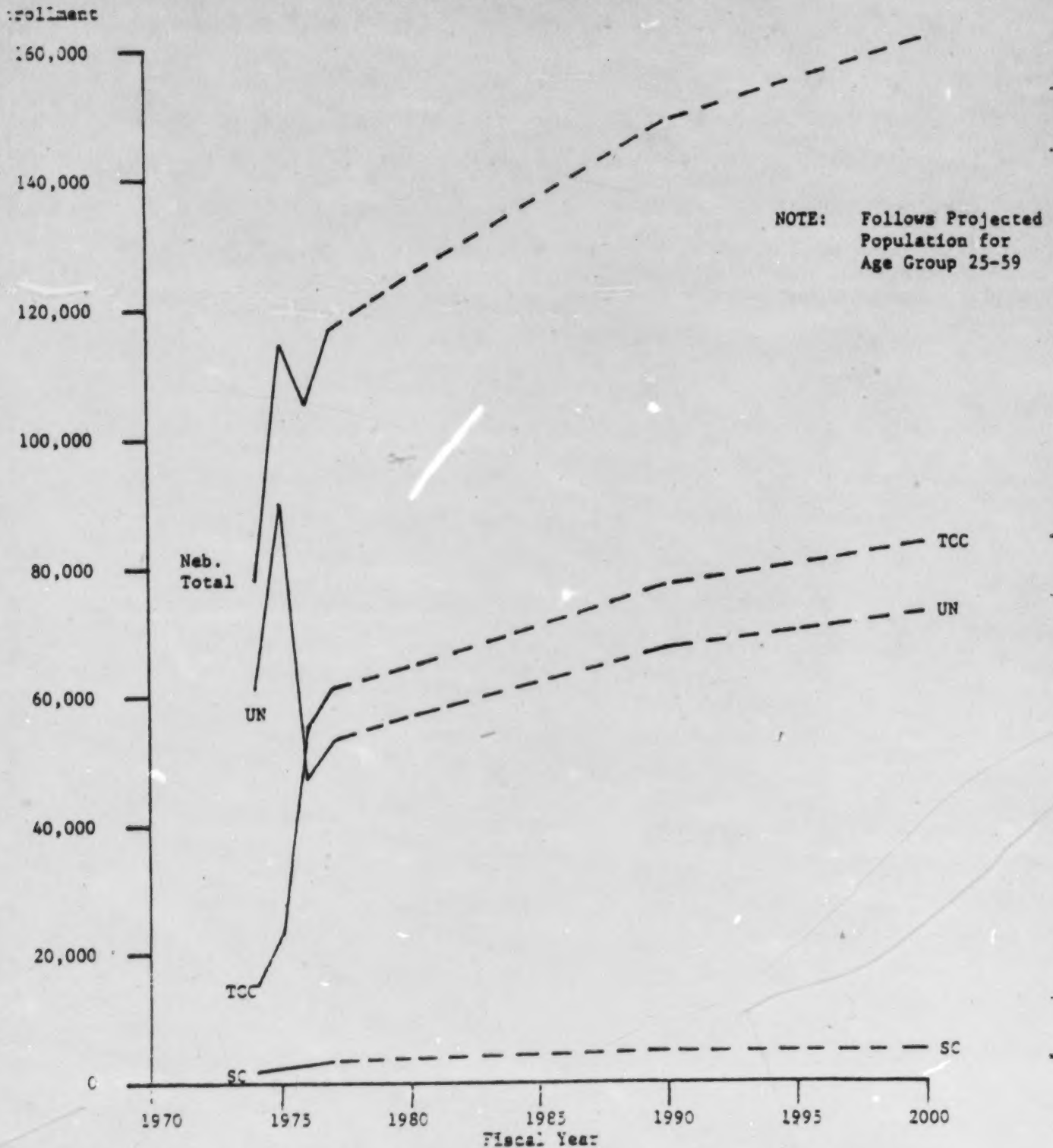
Given the growth which has occurred in the technical community colleges in recent years and the building of new campuses in two metropolitan areas for this sector, there is reasonable evidence for the assumption that the number and related ratios used for the technical community colleges underestimate their future enrollments. The relative stability of the ratios used for projecting unduplicated headcount enrollments for the university and state colleges suggests that the projections shown on Figure No. 9 are more reasonable for these two sectors than for the technical community colleges.

## 2. Non-Award Related Instructional Trends

Projections of the enrollment in non-award related instructional activities (shown on Figure No. 10), are 1976-77 ratios applied to estimated population projections for the 25-59 year-old age group. The continued rise in the population from 555,586 in 1970 to 850,929 by the year 2000

Figure No. 10

Historical and Projected Fiscal Year  
Unduplicated Headcount Enrollment  
For Non-Award Related Instructional Programs  
at the Public Institutional Sectors



NOTE: Follows Projected  
Population for  
Age Group 25-59

UN = University of Nebraska  
SC = State Colleges

TCC = Technical Community Colleges

for this age group is reflected. The Technical Community College Sector, enrolling more students in this area than the other two public institutional sectors in 1976-77, is expected to continue doing so through the year 2000 given existing historical data. The available evidence also suggests that this is a conservative estimate for these public two-year schools.

The projections shown on Figure No. 10 are based on population estimates for the 25-59 year-old age group including the University with an equivalent non-award fiscal year unduplicated headcount enrollment approximating 8.62% of the estimated population base, the state colleges 0.58%, and the technical community college 9.82% of this estimated population. Overall, the projections incorporate the assumption that the public institutional sectors will have enrolled in the non-award programs the equivalent of 19.02% of the states population between the ages of 25 and 59. This assumption may be conservative as the ratio used for the two-year technical community schools of 9.82% is probably low. Just how much this ratio will increase and at what point in time it can be expected to stabilize (as in the case for the University and state colleges), is debatable.

(The reported non-award related enrollment for the University of Nebraska for fiscal year 1974-75 is considered a reliable report but discounted as being unusual when

compared with the data reported for the other years.

Fluctuations in enrollments like this are to be expected for non-award related programs, but cannot be predicted. Thus, the trend for the University is primarily based on the enrollments of unduplicated headcounts for fiscal years 1973-74, 1975-76, and 1976-77.)

### 3. Trends Related To All Instruction

The numerical increases in the projected number of non-award oriented enrollments sufficiently counterbalance any declines anticipated in the award related enrollments to suggest continual increases in unduplicated headcount enrollment through the year 2000 (Figure No. 11). Although this may be reassuring for some, it should be quickly added that only 41.24% of these enrollments will be producing credit and contact hours that can be used for calculating full-time equivalent enrollments used for purposes of budget preparation and the distribution of state general fund appropriations. Some 58.76% of these enrollments will be in instructional services and activities that, as of the present, are suggested to be financially self-supporting.

While Figure No. 10 shows the relative trend related to unduplicated headcount enrollment in the past and future, Table No. 5 shows the number of persons associated with

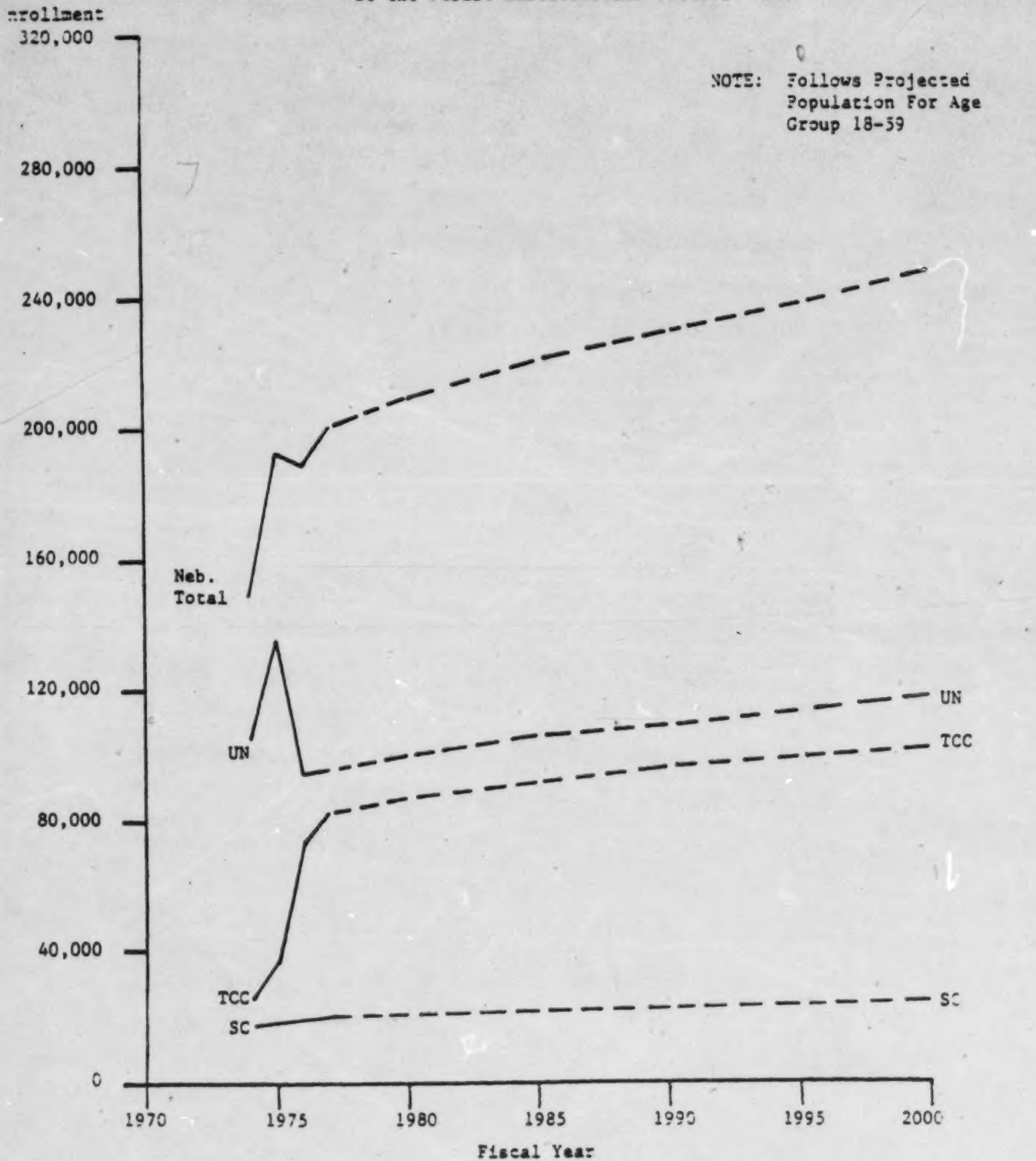
these forecasted enrollments. These forecasts are based on the total unduplicated headcount enrollments of the public institutional sectors for fiscal year 1976-77 as a percentage of the estimated population, 18-59 years old. Total state-wide unduplicated headcount enrollment for future fiscal years, therefore, are expected to continue being the equivalent of some twenty-four percent (24.21%), of estimated population for the age group 18-59; the University's enrollment is expected to be the equivalent of approximately 11.59% of that population, state colleges 2.49%, and the technical community colleges 10.13%.

#### 4. Summary

These trends and projections of fiscal year unduplicated headcount enrollments are presented for two purposes. First, to demonstrate the potential of using fiscal year enrollment data in conducting enrollment projection studies and second, to demonstrate the assumed relationship that exists between full-time enrollments and award-related instructional enrollments, and, the relationship between part-time enrollment projections and projections of non-award related/instructional enrollments. In each instance enrollment declines in the former are counterbalanced by enrollment increases in the latter to provide for somewhat stable total enrollments in the future.

Figure No. 11

Historical and Projected Fiscal Year  
Unduplicated Headcount Enrollment  
for All Instructional Programs  
at the Public Institutional Sectors



UN = University of Nebraska  
SC = State Colleges

TCC = Technical Community Colleges

TABLE NO. 5

**Projected Fiscal Year Unduplicated Headcount Enrollment  
For Public Postsecondary Institutional Sectors  
In All Instructional Programs**

| <u>Year and Population</u> <sup>1</sup><br><u>Estimated for the</u><br><u>Age Group 18-59</u> |           | <u>Estimated</u> <sup>2</sup><br><u>Total Undup.</u><br><u>Headcount</u> | <u>Estimated</u> <sup>3</sup><br><u>Univ. Undup.</u><br><u>Headcount</u> | <u>Estimated</u> <sup>4</sup><br><u>St. Col. Undup.</u><br><u>Headcount</u> | <u>Estimated</u> <sup>5</sup><br><u>TCC Undup.</u><br><u>Headcount</u> |
|-----------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------|
| 1978                                                                                          | 840,697   | 203,533                                                                  | 97,437                                                                   | 20,933                                                                      | 85,163                                                                 |
| 1979                                                                                          | 853,834   | 206,713                                                                  | 98,959                                                                   | 21,260                                                                      | 86,493                                                                 |
| 1980                                                                                          | 866,972   | 209,894                                                                  | 100,482                                                                  | 21,588                                                                      | 87,824                                                                 |
| 1981                                                                                          | 876,710   | 212,251                                                                  | 101,611                                                                  | 21,830                                                                      | 88,810                                                                 |
| 1982                                                                                          | 886,448   | 214,609                                                                  | 102,739                                                                  | 22,073                                                                      | 89,797                                                                 |
| 1983                                                                                          | 896,186   | 216,967                                                                  | 103,868                                                                  | 22,315                                                                      | 90,784                                                                 |
| 1984                                                                                          | 905,924   | 219,324                                                                  | 104,997                                                                  | 22,558                                                                      | 91,770                                                                 |
| 1985                                                                                          | 915,663   | 221,682                                                                  | 106,125                                                                  | 22,800                                                                      | 92,757                                                                 |
| 1986                                                                                          | 922,258   | 223,279                                                                  | 106,890                                                                  | 22,964                                                                      | 93,425                                                                 |
| 1987                                                                                          | 928,853   | 224,875                                                                  | 107,654                                                                  | 23,128                                                                      | 94,093                                                                 |
| 1988                                                                                          | 935,448   | 226,472                                                                  | 108,418                                                                  | 23,293                                                                      | 94,761                                                                 |
| 1989                                                                                          | 942,043   | 228,069                                                                  | 109,183                                                                  | 23,457                                                                      | 95,429                                                                 |
| 1990                                                                                          | 948,637   | 229,665                                                                  | 109,947                                                                  | 23,621                                                                      | 96,097                                                                 |
| 1995                                                                                          | 985,242   | 238,527                                                                  | 114,189                                                                  | 24,533                                                                      | 99,805                                                                 |
| 2000                                                                                          | 1,026,027 | 248,401                                                                  | 118,916                                                                  | 25,548                                                                      | 103,937                                                                |

1. Medium Series Population Projections for this age group. "Population Projections II," Bureau of Business Research, University of Nebraska - Lincoln, Nebraska Economic and Business Reports, Number 14, July, 1976.
2. 24.21% of the estimated population 18-59 (1976-77 Role and Mission Redefinition Study data).
3. 11.59% of the estimated population 18-59 (1976-77 Role and Mission Redefinition Study data).
4. 2.49% of the estimated population 18-59 (1976-77 Role and Mission Redefinition Study data).
5. 10.13% of the estimated population 18-59 (1976-77 Role and Mission Redefinition Study data).

As shown on Table No. 5 for the public postsecondary institutional sectors, the number of persons who possibly will come into contact with a postsecondary educational program or activity could be staggering to the institutions not prepared to efficiently and effectively handle the administrative record-keeping that will undoubtedly be necessary in the future to monitor these enrollments at the institutional, state and federal levels. This is especially true in the programmatic area that has come to be known as "life-long learning," "adult and continuing education." or, as referred to above, as "non-award related instructional programs. In 1976-77 this represented some 59% of the total enrollment in the public institutions. Every forecast of the future suggests that this percentage may increase.

### III. Procedure Followed In Developing The Traditional Type of Enrollment Projections

The full-time enrollment projections reported in this document are based on historical relationships between the number of students enrolled on a first-time full-time basis to the number of high school graduates, and the relationship between the total full-time enrollment and the first-time full-time students. Part-time projections were made using historical relationships between the total part-time enrollment and the estimated population between the ages of 25 and 44 in the county in which the institution is located and in those counties which are bordering that county. Two exceptions to this were projections made for the technical community colleges, where all counties in each Technical Community College Area were used, and statewide totals were used for the independent colleges and universities.

Before this procedure is described in more detail, the assumptions which were a part of this procedure, and more particularly, the assumptions which are not a part of the projections require explanation.

#### Assumptions Considered

For public and private institutions it has been assumed that what the institutions have done in the past are reasonable indices for what they will do in the future in terms of their enrollment profiles. Thus, the following assumptions

were made:

1. That first-time full-time enrollments, for the most part, will be drawn from the number of students graduating from Nebraska high schools. (nearly 84% of the undergraduate enrollment in 1975 were residents of Nebraska.)
2. That the percentage of Nebraska high school graduates enrolling in Nebraska postsecondary institutions will be the same as it has been in the past.
3. That the institutional percentage of first-time full-time students to the number of high school graduates in Nebraska (weighted over the last five years) can be applied to the projected number of high school graduates through 1987 to approximate the equivalent number of first-time full-time students enrolled in each institution through 1987.
4. That the percentage of the total first-time full-time enrollment to total full-time enrollment will, in the future (on the basis of a five year weighted average) be the same as in the past.
5. That, having made projections of first-time full-time enrollments from projections of high school graduates, projections of total full-time enrollment can be made utilizing the historical relationship between first-time full-time and total full-time enrollment.
6. That part-time enrollment is reasonably dependent upon the size of the population between the ages of 25 and 44 in the counties bordering and including the county in which the institution is located or within the institution's statutorily defined service region.
7. That the historical relationship (on the basis of a five year weighted average) between the total part-time enrollment and the population between the ages of 25 and 44 can be applied against the projections for the size of that population in that area to derive approximations of future total part-time enrollments.
8. That the summation of institutional full-time and part-time enrollment projections can be used to determine projections for the institutions total enrollment.

9. That summations of institution projections can be used to forecast future enrollments for the respective institutional sector enrollments.
10. That the population projection and high school graduate projections used are reasonably valid.
11. That higher levels of confidence can be applied to the projections for total statewide enrollments; than assigned to institutional sector enrollments; that more confidence can be placed on institutional sector projection than to individual institutional projections; and, that in each instance, total enrollment projections can be accepted with more confidence than full-time or part-time projections considered separately.

Another assumption was made for the independent colleges and universities that was not used for the public institutions. The assumption was that fifty-four percent of the first-time full-time enrollment at these institutions would be Nebraska residents and that on the average, these schools would continue to draw forty-six percent of their first-time full-time enrollment from other states. This assumption has its limitations, as do all the assumptions made above, in that it assumes that on the average, the future first-time full-time enrollments at the independent colleges and universities will include approximately 1,380 students from other states.

#### Assumptions Not Considered

Numerous assumptions were not considered in the preparation of these enrollments projections. The exclusion of these assumptions severely limit the projections but the effort was to develop future trends based on what institutions have done in the past (assuming that any change in this experience can effect changes in future enrollments), rather than one

of presenting precise numbers of what enrollments are expected to be. In addition, the incorporation of many of these assumptions into the procedure would have required an analytical procedure sufficiently more complicated than the one used here. Dr. Vernon Renshaw, in a report for the Chancellor's Commission On Enrollment, at the University of Nebraska, Lincoln, has written:

*Given the uncertainty surrounding the forces influencing college attendance rates and the absence of strong presumptions concerning even the direction of future long term trends in such rates, therefore, there seems to be little point in developing complicated analytical models for projecting attendance rates.\**

The number of assumptions not considered in these projections are probably too numerous to detail in a single report such as this, but the major ones are mentioned below.

1. That the high school graduation to postsecondary enrollment rate will increase.
2. That enrollment rates for male students differ from the enrollment rates of females.
3. That graduate enrollment as well as first-professional enrollment will increase as a percentage of total enrollment, thus, different projections for graduate students were not made from those made for undergraduates.
4. That any current legislation, (LB 743, 1977) relating to a state scholarship program for students, will cause more students to enroll or change historical enrollment patterns.
5. That, technical community college enrollment will continue to increase at the same rate as in past years.

\*Dr. Vernon Renshaw, Chancellor's Commission on Enrollment Report  
University of Nebraska-Lincoln, November, 1975

6. That the new campuses associated with Metropolitan Technical Community College and Southeast Technical Community College will change their historical enrollment profiles.
7. That there will be any change in attitude toward attaining a postsecondary education by the citizens of the state.
8. That social and economic factors affecting postsecondary educational enrollment will be much different in the future than they have been in the past.
9. That there will be new programs developed to provide services for new populations or targeted toward a new clientele that might affect enrollments.
10. That any change in public institutional enrollment profiles will occur as a result of changes which may occur with respect to their role and mission.
11. That there will be new postsecondary institutions established in Nebraska during the period of time for which enrollment projections have been made.
12. That existing postsecondary institution in Nebraska will close due to enrollment declines, forcing the remaining students to enroll elsewhere, during the period of time for which enrollment projections have been made.
13. That out-of-state institutions offering programs within the geographic boundaries of Nebraska will affect future enrollments.
14. That state policy with regard to the financing of postsecondary education will be changed in such a manner that it will impact on future enrollments.
15. That policies and financial assistance programs at the federal level will cause changes in the future enrollments in Nebraska postsecondary education.

Some of these assumptions could have been considered in the development of these enrollment projections. They were not included, however, for three reasons. First, it is difficult to determine just what the magnitude of impact the new campus opening in 1978 will have on the enrollments at Metropolitan Technical Community College Area. Also, the enrollment impact of the new Health and Physical Education Facility scheduled for completion in September 1979 at Peru State College is hard to assess. These developments, and others like them, should result in enrollment increases, but to build in factors which would reflect this would be mere speculation at this time. The second reason was to report projection trends which will provide a base line (status quo) projection, based on historical relationships and ratios which demonstrate what enrollments might be in the future if the institutions continue doing in the future what they have done in the past. Any adjustment in that pattern (i.e. new facilities, program modification, increased enrollment efforts, etc.), should be reflected in changes in these enrollment projections. The third reason is that some of these changes may not result in the enrollment of more or new students, but will change the current distribution of students among the Nebraska institutions. Although there may be increases or decreases at individual institutions, the overall affect at the state-level may be minimal.

### The Two Series of Projections

Two series of enrollment projections were made through 1987 for first-time full-time and total full-time enrollment. The first series results from using high school graduation projections relating to twelfth grade enrollment projections and fall 1977 institutional ratios of high school graduates to first-time full-time enrollment, and first-time full-time enrollment to total full-time enrollment. The second series of projections is based on medium series projections from live birth rates eighteen years prior and institutional five-year weighted averages of first-time full-time students to high school graduates and five-year weighted averages of first-time full-time to total full-time enrollment.

Part-time projections for both series were the result of institutional five-year weighted averages of part-time enrollment to medium series projections of the number of persons between the ages of 25 and 44 living in the counties bordering and including the county in which the institution is located. For Technical Community College Areas, the counties in the respective areas were used and for independent colleges and universities the population projection for the entire state were used.

Table No. 6 shows the fall 1977 and five-year weighted ratios that were used to make these projections for the institutions. Table No. 7 shows the projections of high school graduates used for purposes of projecting the number of high school graduates.

Table No. 6

Ratios Used in Making Enrollment Projections

|                                          | <u>Fall 1977 Ratio<br/>of First-Time<br/>Full-Time<br/>Enrollment to<br/>High School<br/>Graduates of 1977</u> | <u>Five-Year<br/>Weighted<br/>Average of<br/>First Time<br/>Full-Time to<br/>High School<br/>Graduates</u> | <u>Fall 1977 Ratio<br/>of First Time<br/>Full-Time to<br/>Total Full-Time<br/>Enrollments</u> | <u>Five Year<br/>Weighted<br/>Average of<br/>First-Time<br/>Full-Time To<br/>Total Full-<br/>Time</u> | <u>Five Year<br/>Weighted<br/>Ratio of<br/>Total Part-<br/>Time to<br/>Population<br/>for 25-44</u> |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Univ. of Nebr.                           |                                                                                                                |                                                                                                            |                                                                                               |                                                                                                       |                                                                                                     |
| UNL                                      | 15.04%                                                                                                         | 15.22%                                                                                                     | 22.00%                                                                                        | 22.33%                                                                                                | 6.41%                                                                                               |
| UNO                                      | 5.48%                                                                                                          | 5.61%                                                                                                      | 20.72%                                                                                        | 20.53%                                                                                                | 5.19%                                                                                               |
| Med. Center*                             |                                                                                                                |                                                                                                            |                                                                                               |                                                                                                       |                                                                                                     |
| State Colleges                           |                                                                                                                |                                                                                                            |                                                                                               |                                                                                                       |                                                                                                     |
| Chadron                                  | 1.54%                                                                                                          | 1.74%                                                                                                      | 30.64%                                                                                        | 33.18%                                                                                                | 4.10%                                                                                               |
| Kearney                                  | 5.13%                                                                                                          | 4.46%                                                                                                      | 31.11%                                                                                        | 28.44%                                                                                                | 4.27%                                                                                               |
| Peru                                     | 0.63%                                                                                                          | 0.70%                                                                                                      | 26.74%                                                                                        | 28.96%                                                                                                | 1.97%                                                                                               |
| Wayne                                    | 2.07%                                                                                                          | 1.96%                                                                                                      | 29.35%                                                                                        | 28.98%                                                                                                | 2.10%                                                                                               |
| Technical Com. **                        |                                                                                                                |                                                                                                            |                                                                                               |                                                                                                       |                                                                                                     |
| Colleges                                 |                                                                                                                |                                                                                                            |                                                                                               |                                                                                                       |                                                                                                     |
| Central                                  | 7.75%                                                                                                          | 7.17%                                                                                                      | 53.10%                                                                                        | 52.11%                                                                                                | 2.17%                                                                                               |
| Metropolitan                             | 3.02%                                                                                                          | 3.14%                                                                                                      | 45.33%                                                                                        | 50.24%                                                                                                | 1.61%                                                                                               |
| Mid Plains                               | 1.98%                                                                                                          | 2.14%                                                                                                      | 62.97%                                                                                        | 66.67%                                                                                                | 6.40%                                                                                               |
| Northeast                                | 2.37%                                                                                                          | 2.18%                                                                                                      | 59.82%                                                                                        | 59.28%                                                                                                | 1.13%                                                                                               |
| Southeast                                | 3.35%                                                                                                          | 3.21%                                                                                                      | 44.42%                                                                                        | 43.67%                                                                                                | 0.55%                                                                                               |
| Western                                  | 1.59%                                                                                                          | 1.67%                                                                                                      | 46.46%                                                                                        | 51.75%                                                                                                | 2.09%                                                                                               |
| Independent Colleges<br>and Universities | 11.36%                                                                                                         | 11.97%                                                                                                     | 25.32%                                                                                        | 26.34%                                                                                                | 0.68%                                                                                               |
|                                          | 6.1%***                                                                                                        | 6.45%***                                                                                                   |                                                                                               |                                                                                                       |                                                                                                     |

\*First-Time Full-Time held constant at 54. Series #1 projections provided by the Medical Center, Series #2 projections same as Fall 1977 fall enrollment.

\*\*Three-Year Weighted Averages rather than Five-Year.

\*\*\*Percentages that are Residents of Nebraska for First-Time Full-Time only.

Table No. 7  
Historical and Projected Numbers of  
High School Graduates

| Year | Historical Numbers<br>Of High School<br>Graduates | High School Graduates<br>Projected as being<br>95.83% of 12th Grade | High School Graduates Projections From<br>Live Births 18 years Prior |               |             |
|------|---------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|---------------|-------------|
|      |                                                   | Enrollment                                                          | Low Series                                                           | Medium Series | High Series |
| 1967 | 22,716                                            |                                                                     |                                                                      |               |             |
| 1968 | 22,921                                            |                                                                     |                                                                      |               |             |
| 1969 | 23,980                                            |                                                                     |                                                                      |               |             |
| 1970 | 24,237                                            |                                                                     |                                                                      |               |             |
| 1971 | 24,239                                            |                                                                     |                                                                      |               |             |
| 1972 | 24,814                                            |                                                                     |                                                                      |               |             |
| 1973 | 25,128                                            |                                                                     |                                                                      |               |             |
| 1974 | 24,792                                            |                                                                     |                                                                      |               |             |
| 1975 | 24,765                                            |                                                                     |                                                                      |               |             |
| 1976 | 24,792                                            |                                                                     |                                                                      |               |             |
| 1977 | 25,561                                            |                                                                     |                                                                      |               |             |
| 1978 |                                                   | 26,334                                                              | 25,162                                                               | 25,532        | 25,751      |
| 1979 |                                                   | 25,797                                                              | 25,372                                                               | 25,746        | 26,091      |
| 1980 |                                                   | 24,925                                                              | 24,889                                                               | 25,255        | 25,713      |
| 1981 |                                                   | 23,910                                                              | 23,962                                                               | 24,315        | 24,873      |
| 1982 |                                                   | 22,252                                                              | 22,569                                                               | 22,901        | 23,534      |
| 1983 |                                                   | 21,006                                                              | 20,440                                                               | 20,741        | 21,412      |
| 1984 |                                                   | 20,134                                                              | 18,816                                                               | 19,093        | 19,803      |
| 1985 |                                                   | 19,846                                                              | 17,818                                                               | 18,080        | 18,837      |
| 1986 |                                                   | 20,488                                                              | 17,801                                                               | 18,063        | 18,907      |
| 1987 |                                                   | 21,016                                                              | 18,216                                                               | 18,484        | 19,434      |
| 1988 |                                                   |                                                                     | 19,007                                                               | 19,286        | 20,368      |
| 1989 |                                                   |                                                                     | 18,735                                                               | 19,010        | 20,168      |
| 1990 |                                                   |                                                                     | 17,241                                                               | 17,494        | 18,642      |
| 1991 |                                                   |                                                                     | 16,725                                                               | 16,971        | 18,167      |
| 1992 |                                                   |                                                                     | 17,404                                                               | 17,660        | 18,987      |
| 1993 |                                                   |                                                                     | 17,377                                                               | 17,632        | 19,040      |
| 1994 |                                                   |                                                                     | 17,457                                                               | 17,714        | 19,213      |
| 1995 |                                                   |                                                                     | 18,546                                                               | 18,819        | 20,500      |

#### IV. Institutional Sector Historical and Projected Fall Enrollments and Institutional Historical Fall Enrollments

The following tables show the historical and projected opening fall headcount enrollments for the institutional sectors. These sectors are the University of Nebraska, the Nebraska State Colleges, the Nebraska Technical Community Colleges, and the Nebraska Independent Colleges and Universities. Each sector is followed by the historical fall headcount enrollments for the institutions which are a part of the institutional sector.

Each of the tables which follow show total enrollment, total full- and part-time enrollments, and first-time full-time enrollment for the fall semesters of the years shown.

Table No. 8

Nebraska Collegiate Institutions of Higher Education  
Historical and Projected, On Campus Degree  
Credit Enrollment

| <u>Year</u> | <u>Total Enrollment</u> | <u>Full Time</u> | <u>Part Time</u> | <u>First Time Full Time</u> |
|-------------|-------------------------|------------------|------------------|-----------------------------|
| 1967        | 57,208                  | 46,276           | 10,932           | 13,632                      |
| 1968        | 60,964                  | 49,488           | 11,476           | 14,015                      |
| 1969        | 65,018                  | 51,668           | 13,350           | 14,822                      |
| 1970        | 66,517                  | 52,096           | 14,421           | 13,861                      |
| 1971        | 64,933                  | 50,851           | 14,082           | 12,682                      |
| 1972        | 70,036                  | 51,379           | 18,657           | 13,107                      |
| 1973        | 71,214                  | 48,911           | 22,303           | 12,859                      |
| 1974        | 71,021                  | 49,412           | 21,609           | 13,882                      |
| 1975        | 75,429                  | 51,931           | 23,498           | 14,893                      |
| 1976        | 78,222                  | 53,524           | 24,698           | 15,479                      |
| 1977        | 82,085                  | 54,863           | 27,222           | 15,724                      |

|      | <u>Total Enrollment</u> |                  | <u>Full Time Projections</u> |                  | <u>Part Time Projections</u> |                  | <u>First Time Full Time</u> |                  |
|------|-------------------------|------------------|------------------------------|------------------|------------------------------|------------------|-----------------------------|------------------|
|      | <u>Series #1</u>        | <u>Series #2</u> | <u>Series #1</u>             | <u>Series #2</u> | <u>Series #1</u>             | <u>Series #2</u> | <u>Series #1</u>            | <u>Series #2</u> |
| 1978 | 83,913                  | 81,815           | 56,461                       | 54,363           | 27,452                       | 27,452           | 16,277                      | 15,664           |
| 1979 | 83,918                  | 83,078           | 55,564                       | 54,764           | 28,354                       | 28,314           | 15,983                      | 15,782           |
| 1980 | 83,224                  | 83,026           | 53,971                       | 53,842           | 29,253                       | 29,184           | 15,494                      | 15,509           |
| 1981 | 82,304                  | 82,205           | 52,084                       | 52,077           | 30,220                       | 30,128           | 14,919                      | 14,984           |
| 1982 | 80,107                  | 80,492           | 48,945                       | 49,422           | 31,162                       | 31,070           | 13,985                      | 14,196           |
| 1983 | 78,688                  | 77,393           | 46,580                       | 45,375           | 32,108                       | 32,016           | 13,281                      | 13,354           |
| 1984 | 77,987                  | 75,242           | 44,933                       | 42,280           | 33,054                       | 32,962           | 12,785                      | 12,076           |
| 1985 | 78,381                  | 74,126           | 44,385                       | 40,222           | 33,996                       | 33,904           | 12,628                      | 11,503           |
| 1986 | 80,338                  | 74,986           | 45,600                       | 40,340           | 34,738                       | 34,646           | 12,990                      | 11,518           |
| 1987 | 82,088                  | 76,518           | 46,605                       | 41,127           | 35,483                       | 35,391           | 13,288                      | 11,734           |

Table No. 9

University of Nebraska  
Historical and Projected, On Campus Degree  
Credit Enrollment

| <u>Year</u> | <u>Total Enrollment</u> | <u>Full Time</u> | <u>Part Time</u> | <u>First Time Full Time</u> |
|-------------|-------------------------|------------------|------------------|-----------------------------|
| 1967        | 26,797                  | 20,263           | 6,534            | 5,340                       |
| 1968        | 29,938                  | 22,452           | 7,486            | 5,848                       |
| 1969        | 32,496                  | 23,840           | 8,656            | 6,354                       |
| 1970        | 34,895                  | 25,285           | 9,610            | 5,879                       |
| 1971        | 35,485                  | 26,349           | 9,136            | 5,703                       |
| 1972        | 36,148                  | 26,300           | 9,848            | 5,629                       |
| 1973        | 36,421                  | 24,862           | 11,559           | 5,255                       |
| 1974        | 36,552                  | 24,265           | 12,287           | 5,042                       |
| 1975        | 38,925                  | 24,954           | 13,971           | 5,389                       |
| 1976        | 38,920                  | 25,412           | 13,508           | 5,247                       |
| 1977        | 39,185                  | 25,440           | 13,745           | 5,300                       |

|      | <u>Total Enrollment</u> |                  | <u>Full Time Projections</u> |                  | <u>Part Time Projections</u> |                  | <u>First Time Full Time</u> |                  |
|------|-------------------------|------------------|------------------------------|------------------|------------------------------|------------------|-----------------------------|------------------|
|      | <u>Series #1</u>        | <u>Series #2</u> | <u>Series #1</u>             | <u>Series #2</u> | <u>Series #1</u>             | <u>Series #2</u> | <u>Series #1</u>            | <u>Series #2</u> |
| 1978 | 40,931                  | 40,241           | 26,270                       | 25,580           | 14,661                       | 14,661           | 5,448                       | 5,372            |
| 1979 | 41,058                  | 40,919           | 25,885                       | 25,786           | 15,173                       | 15,133           | 5,348                       | 5,417            |
| 1980 | 40,790                  | 40,926           | 25,114                       | 25,319           | 15,676                       | 15,607           | 5,169                       | 5,315            |
| 1981 | 40,395                  | 40,531           | 24,192                       | 24,420           | 16,203                       | 16,111           | 4,960                       | 5,119            |
| 1982 | 39,328                  | 39,686           | 22,622                       | 23,072           | 16,706                       | 16,614           | 4,620                       | 4,825            |
| 1983 | 38,650                  | 38,129           | 21,439                       | 21,010           | 17,211                       | 17,119           | 4,364                       | 4,735            |
| 1984 | 38,326                  | 37,055           | 20,612                       | 19,433           | 17,714                       | 17,622           | 4,185                       | 4,031            |
| 1985 | 38,562                  | 36,439           | 20,344                       | 18,313           | 18,218                       | 18,126           | 4,127                       | 3,813            |
| 1986 | 39,576                  | 36,981           | 20,950                       | 18,447           | 18,626                       | 18,534           | 4,258                       | 3,834            |
| 1987 | 40,487                  | 37,792           | 21,453                       | 18,850           | 19,034                       | 18,942           | 4,367                       | 3,904            |

Table No. 10

University of Nebraska - Lincoln  
Historical, On Campus Degree  
Credit Enrollment

| <u>Year</u> | <u>Total<br/>Enrollment</u> | <u>Full<br/>Time</u> | <u>Part<br/>Time</u> | <u>First Time<br/>Full Time</u> |
|-------------|-----------------------------|----------------------|----------------------|---------------------------------|
| 1967        | 18,067                      | 15,721               | 2,346                | 4,129                           |
| 1968        | 19,150                      | 16,516               | 2,634                | 4,102                           |
| 1969        | 19,618                      | 16,657               | 2,961                | 4,205                           |
| 1970        | 20,810                      | 17,501               | 3,309                | 3,951                           |
| 1971        | 21,541                      | 18,294               | 3,247                | 4,091                           |
| 1972        | 21,581                      | 18,062               | 3,519                | 3,988                           |
| 1973        | 21,160                      | 16,738               | 4,422                | 3,864                           |
| 1974        | 20,892                      | 16,189               | 4,703                | 3,637                           |
| 1975        | 22,380                      | 16,767               | 5,613                | 3,883                           |
| 1976        | 22,179                      | 17,384               | 4,795                | 3,798                           |
| 1977        | 22,256                      | 17,472               | 4,784                | 3,844                           |

Table No. 11

University of Nebraska - Omaha  
 Historical, On Campus Degree  
 Credit Enrollment

| <u>Year</u> | <u>Total<br/>Enrollment</u> | <u>Full<br/>Time</u> | <u>Part<br/>Time</u> | <u>First Time<br/>Full Time</u> |
|-------------|-----------------------------|----------------------|----------------------|---------------------------------|
| 1967        | 8,730                       | 4,542                | 4,188                | 1,211                           |
| 1968        | 10,788                      | 5,936                | 4,852                | 1,746                           |
| 1969        | 12,120                      | 6,492                | 5,628                | 2,149                           |
| 1970        | 13,185                      | 6,959                | 6,226                | 1,895                           |
| 1971        | 12,711                      | 6,889                | 5,822                | 1,582                           |
| 1972        | 13,117                      | 6,891                | 6,226                | 1,620                           |
| 1973        | 13,691                      | 6,730                | 6,961                | 1,341                           |
| 1974        | 14,124                      | 6,687                | 7,437                | 1,362                           |
| 1975        | 15,051                      | 7,133                | 7,918                | 1,470                           |
| 1976        | 14,993                      | 6,845                | 8,148                | 1,402                           |
| 1977        | 15,033                      | 6,766                | 8,267                | 1,402                           |

Table No. 12

University of Nebraska - Medical Center  
Historical, On Campus Degree  
Credit Enrollment

| <u>Year</u> | <u>Total<br/>Enrollment</u> | <u>Full<br/>Time</u> | <u>Part<br/>Time</u> | <u>First Time<br/>Full Time</u> |
|-------------|-----------------------------|----------------------|----------------------|---------------------------------|
| 1967        |                             |                      |                      |                                 |
| 1968        |                             |                      |                      |                                 |
| 1969        | 758                         | 691                  | 67                   | 0                               |
| 1970        | 900                         | 825                  | 75                   | 33                              |
| 1971        | 1,233                       | 1,166                | 67                   | 30                              |
| 1972        | 1,450                       | 1,347                | 103                  | 21                              |
| 1973        | 1,570                       | 1,394                | 176                  | 50                              |
| 1974        | 1,536                       | 1,389                | 147                  | 43                              |
| 1975        | 1,494                       | 1,054                | 440                  | 36                              |
| 1976        | 1,748                       | 1,183                | 565                  | 47                              |
| 1977        | 1,896                       | 1,202                | 694                  | 54                              |

Table No. 13

Nebraska State Colleges  
Historical and Projected, On Campus Degree  
Credit Enrollment

| <u>Year</u> | <u>Total Enrollment</u> | <u>Full Time</u> | <u>Part Time</u> | <u>First Time Full Time</u> |
|-------------|-------------------------|------------------|------------------|-----------------------------|
| 1967        | 10,838                  | 9,408            | 1,430            | 2,868                       |
| 1968        | 11,706                  | 10,200           | 1,506            | 3,079                       |
| 1969        | 12,468                  | 10,816           | 1,652            | 3,058                       |
| 1970        | 12,446                  | 10,456           | 1,990            | 2,731                       |
| 1971        | 11,698                  | 9,684            | 2,014            | 2,310                       |
| 1972        | 10,447                  | 8,421            | 2,026            | 1,884                       |
| 1973        | 9,790                   | 7,479            | 2,311            | 1,978                       |
| 1974        | 9,776                   | 7,053            | 2,723            | 2,003                       |
| 1975        | 10,265                  | 7,418            | 2,847            | 2,097                       |
| 1976        | 10,489                  | 7,436            | 3,053            | 2,272                       |
| 1977        | 11,215                  | 7,904            | 3,311            | 2,395                       |

|      | <u>Total Enrollment</u> |                  | <u>Full Time Projections</u> |                  | <u>Part Time Projections</u> |                  | <u>First Time Full Time</u> |                  |
|------|-------------------------|------------------|------------------------------|------------------|------------------------------|------------------|-----------------------------|------------------|
|      | <u>Series #1</u>        | <u>Series #2</u> | <u>Series #1</u>             | <u>Series #2</u> | <u>Series #1</u>             | <u>Series #2</u> | <u>Series #1</u>            | <u>Series #2</u> |
| 1978 | 11,371                  | 10,911           | 8,146                        | 7,686            | 3,225                        | 3,225            | 2,468                       | 2,262            |
| 1979 | 11,305                  | 11,079           | 7,978                        | 7,752            | 3,327                        | 3,327            | 2,417                       | 2,281            |
| 1980 | 11,141                  | 11,033           | 7,709                        | 7,601            | 3,432                        | 3,432            | 2,336                       | 2,237            |
| 1981 | 10,935                  | 10,859           | 7,396                        | 7,320            | 3,539                        | 3,539            | 2,241                       | 2,154            |
| 1982 | 10,532                  | 10,538           | 6,885                        | 6,891            | 3,647                        | 3,647            | 2,086                       | 2,028            |
| 1983 | 10,251                  | 10,001           | 6,495                        | 6,245            | 3,756                        | 3,756            | 1,968                       | 1,838            |
| 1984 | 10,099                  | 9,616            | 6,234                        | 5,751            | 3,865                        | 3,865            | 1,887                       | 1,692            |
| 1985 | 10,109                  | 9,414            | 6,138                        | 5,443            | 3,971                        | 3,971            | 1,860                       | 1,602            |
| 1986 | 10,383                  | 9,484            | 6,336                        | 5,437            | 4,047                        | 4,047            | 1,920                       | 1,600            |
| 1987 | 10,623                  | 9,686            | 6,498                        | 5,561            | 4,125                        | 4,125            | 1,969                       | 1,637            |

Table No. 14

Chadron State College  
 Historical, On Campus Degree  
 Credit Enrollment

| <u>Year</u> | <u>Total<br/>Enrollment</u> | <u>Full<br/>Time</u> | <u>Part<br/>Time</u> | <u>First Time<br/>Full Time</u> |
|-------------|-----------------------------|----------------------|----------------------|---------------------------------|
| 1967        | 1,852                       | 1,564                | 288                  | 420                             |
| 1968        | 2,032                       | 1,756                | 276                  | 486                             |
| 1969        | 2,332                       | 2,013                | 319                  | 510                             |
| 1970        | 2,469                       | 1,947                | 522                  | 470                             |
| 1971        | 2,428                       | 1,823                | 605                  | 336                             |
| 1972        | 2,122                       | 1,625                | 497                  | 289                             |
| 1973        | 2,104                       | 1,512                | 592                  | 444                             |
| 1974        | 1,964                       | 1,368                | 596                  | 442                             |
| 1975        | 2,024                       | 1,385                | 639                  | 384                             |
| 1976        | 1,907                       | 1,250                | 657                  | 523                             |
| 1977        | 2,069                       | 1,286                | 783                  | 394                             |

Table No. 15

Kearney State College  
Historical, On Campus Degree  
Credit Enrollment

| <u>Year</u> | <u>Total<br/>Enrollment</u> | <u>Full<br/>Time</u> | <u>Part<br/>Time</u> | <u>First Time<br/>Full Time</u> |
|-------------|-----------------------------|----------------------|----------------------|---------------------------------|
| 1967        | 4,839                       | 4,298                | 541                  | 1,432                           |
| 1968        | 5,362                       | 4,725                | 637                  | 1,467                           |
| 1969        | 5,869                       | 5,041                | 828                  | 1,494                           |
| 1970        | 5,870                       | 4,936                | 934                  | 1,284                           |
| 1971        | 5,601                       | 4,600                | 1,001                | 1,174                           |
| 1972        | 5,210                       | 4,234                | 976                  | 1,000                           |
| 1973        | 4,850                       | 3,695                | 1,155                | 860                             |
| 1974        | 5,072                       | 3,543                | 1,529                | 932                             |
| 1975        | 5,322                       | 3,818                | 1,504                | 1,049                           |
| 1976        | 5,642                       | 3,876                | 1,766                | 1,092                           |
| 1977        | 6,037                       | 4,217                | 1,820                | 1,312                           |

Table No. 16

Peru State College  
 Historical, On Campus Degree  
 Credit Enrollment

| <u>Year</u> | <u>Total<br/>Enrollment</u> | <u>Full<br/>Time</u> | <u>Part<br/>Time</u> | <u>First Time<br/>Full Time</u> |
|-------------|-----------------------------|----------------------|----------------------|---------------------------------|
| 1967        | 1,186                       | 1,078                | 108                  | 291                             |
| 1968        | 1,244                       | 1,103                | 141                  | 302                             |
| 1969        | 1,261                       | 1,126                | 135                  | 286                             |
| 1970        | 1,135                       | 972                  | 163                  | 211                             |
| 1971        | 1,001                       | 894                  | 107                  | 206                             |
| 1972        | 940                         | 698                  | 242                  | 159                             |
| 1973        | 853                         | 646                  | 207                  | 208                             |
| 1974        | 770                         | 596                  | 174                  | 209                             |
| 1975        | 820                         | 629                  | 191                  | 210                             |
| 1976        | 805                         | 591                  | 214                  | 145                             |
| 1977        | 744                         | 602                  | 142                  | 161                             |

Table No. 17

Wayne State College  
Historical, On Campus Degree  
Credit Enrollment

| <u>Year</u> | <u>Total<br/>Enrollment</u> | <u>Full<br/>Time</u> | <u>Part<br/>Time</u> | <u>First Time<br/>Full Time</u> |
|-------------|-----------------------------|----------------------|----------------------|---------------------------------|
| 1967        | 2,961                       | 2,468                | 493                  | 725                             |
| 1968        | 3,068                       | 2,616                | 452                  | 824                             |
| 1969        | 3,006                       | 2,636                | 370                  | 768                             |
| 1970        | 2,972                       | 2,601                | 371                  | 766                             |
| 1971        | 2,668                       | 2,367                | 301                  | 594                             |
| 1972        | 2,175                       | 1,864                | 311                  | 436                             |
| 1973        | 1,983                       | 1,626                | 357                  | 466                             |
| 1974        | 1,970                       | 1,546                | 424                  | 420                             |
| 1975        | 2,099                       | 1,586                | 513                  | 454                             |
| 1976        | 2,135                       | 1,719                | 416                  | 512                             |
| 1977        | 2,365                       | 1,799                | 566                  | 528                             |

Table No. 18

Nebraska Technical Community Colleges  
Historical and Projected, On Campus Degree  
Credit Enrollment

| <u>Year</u> | <u>Total Enrollment</u> | <u>Full Time</u> | <u>Part Time</u> | <u>First Time Full Time</u> |
|-------------|-------------------------|------------------|------------------|-----------------------------|
| 1967        |                         |                  |                  |                             |
| 1968        |                         |                  |                  |                             |
| 1969        |                         |                  |                  |                             |
| 1970        |                         |                  |                  |                             |
| 1971        |                         |                  |                  |                             |
| 1972        | 8,900                   | 4,519            | 4,381            | 2,349                       |
| 1973        | 10,694                  | 4,583            | 6,111            | 2,211                       |
| 1974        | 10,413                  | 6,388            | 4,025            | 3,494                       |
| 1975        | 12,600                  | 8,270            | 4,330            | 4,438                       |
| 1976        | 14,930                  | 9,248            | 5,682            | 4,897                       |
| 1977        | 17,371                  | 10,048           | 7,323            | 5,125                       |

|      | <u>Total Enrollment</u> |                  | <u>Full Time Projections</u> |                  | <u>Part Time Projections</u> |                  | <u>First Time Full Time</u> |                  |
|------|-------------------------|------------------|------------------------------|------------------|------------------------------|------------------|-----------------------------|------------------|
|      | <u>Series #1</u>        | <u>Series #2</u> | <u>Series #1</u>             | <u>Series #2</u> | <u>Series #1</u>             | <u>Series #2</u> | <u>Series #1</u>            | <u>Series #2</u> |
| 1978 | 17,198                  | 16,447           | 10,356                       | 9,605            | 6,842                        | 6,842            | 5,282                       | 5,003            |
| 1979 | 17,188                  | 16,725           | 10,144                       | 9,681            | 7,044                        | 7,044            | 5,174                       | 5,043            |
| 1980 | 17,052                  | 16,746           | 9,804                        | 9,498            | 7,248                        | 7,248            | 5,001                       | 4,948            |
| 1981 | 16,888                  | 16,630           | 9,403                        | 9,145            | 7,485                        | 7,485            | 4,796                       | 4,763            |
| 1982 | 16,472                  | 16,333           | 8,751                        | 8,612            | 7,721                        | 7,721            | 4,464                       | 4,486            |
| 1983 | 16,220                  | 15,758           | 8,263                        | 7,801            | 7,957                        | 7,957            | 4,214                       | 4,063            |
| 1984 | 16,122                  | 15,379           | 7,916                        | 7,183            | 8,196                        | 8,196            | 4,038                       | 3,742            |
| 1985 | 16,236                  | 15,232           | 7,804                        | 6,800            | 8,432                        | 8,432            | 3,981                       | 3,542            |
| 1986 | 16,675                  | 15,409           | 8,060                        | 6,794            | 8,615                        | 8,615            | 4,111                       | 3,539            |
| 1987 | 17,065                  | 15,749           | 8,267                        | 6,951            | 8,798                        | 8,798            | 4,216                       | 3,621            |

Table No. 19

Central Technical Community College Area  
Historical, On Campus Degree  
Credit Enrollment

| <u>Year</u> | <u>Total<br/>Enrollment</u> | <u>Full<br/>Time</u> | <u>Part<br/>Time</u> | <u>First Time<br/>Full Time</u> |
|-------------|-----------------------------|----------------------|----------------------|---------------------------------|
| 1967        |                             |                      |                      |                                 |
| 1968        |                             |                      |                      |                                 |
| 1969        |                             |                      |                      |                                 |
| 1970        |                             |                      |                      |                                 |
| 1971        |                             |                      |                      |                                 |
| 1972        |                             |                      |                      |                                 |
| 1973        |                             |                      |                      |                                 |
| 1974        | 1,998                       | 1,988                | 0                    | 937                             |
| 1975        | 2,979                       | 2,613                | 366                  | 1,375                           |
| 1976        | 4,197                       | 3,507                | 690                  | 1,766                           |
| 1977        | 5,410                       | 3,729                | 1,681                | 1,980                           |

Table No. 20

Metropolitan Technical Community College Area  
Historical, On Campus Degree  
Credit Enrollment

| <u>Year</u> | <u>Total<br/>Enrollment</u> | <u>Full<br/>Time</u> | <u>Part<br/>Time</u> | <u>First Time<br/>Full Time</u> |
|-------------|-----------------------------|----------------------|----------------------|---------------------------------|
| 1967        |                             |                      |                      |                                 |
| 1968        |                             |                      |                      |                                 |
| 1969        |                             |                      |                      |                                 |
| 1970        |                             |                      |                      |                                 |
| 1971        |                             |                      |                      |                                 |
| 1972        | 3,598                       | 398                  | 3,200                | 78                              |
| 1973        | 5,068                       | 396                  | 4,672                | 170                             |
| 1974        | 2,215                       | 519                  | 1,696                | 519                             |
| 1975        | 2,768                       | 1,347                | 1,421                | 652                             |
| 1976        | 3,562                       | 1,509                | 2,053                | 883                             |
| 1977        | 4,676                       | 1,701                | 2,975                | 771                             |

Table No. 21

Mid Plains Technical Community College Area  
Historical, On Campus Degree  
Credit Enrollment

| <u>Year</u> | <u>Total<br/>Enrollment</u> | <u>Full<br/>Time</u> | <u>Part<br/>Time</u> | <u>First Time<br/>Full Time</u> |
|-------------|-----------------------------|----------------------|----------------------|---------------------------------|
| 1967        |                             |                      |                      |                                 |
| 1968        |                             |                      |                      |                                 |
| 1969        |                             |                      |                      |                                 |
| 1970        |                             |                      |                      |                                 |
| 1971        |                             |                      |                      |                                 |
| 1972        | 1,523                       | 818                  | 705                  | 502                             |
| 1973        | 1,696                       | 843                  | 853                  | 459                             |
| 1974        | 2,229                       | 968                  | 1,261                | 689                             |
| 1975        | 2,282                       | 877                  | 1,405                | 598                             |
| 1976        | 2,448                       | 788                  | 1,660                | 563                             |
| 1977        | 1,969                       | 802                  | 1,167                | 505                             |

Table No. 22

Northeast Technical Community College Area  
Historical, On Campus Degree  
Credit Enrollment

| <u>Year</u> | <u>Total<br/>Enrollment</u> | <u>Full<br/>Time</u> | <u>Part<br/>Time</u> | <u>First Time<br/>Full Time</u> |
|-------------|-----------------------------|----------------------|----------------------|---------------------------------|
| 1967        |                             |                      |                      |                                 |
| 1968        |                             |                      |                      |                                 |
| 1969        |                             |                      |                      |                                 |
| 1970        |                             |                      |                      |                                 |
| 1971        |                             |                      |                      |                                 |
| 1972        | 991                         | 807                  | 184                  | 592                             |
| 1973        | 1,055                       | 849                  | 206                  | 493                             |
| 1974        | 1,097                       | 835                  | 262                  | 475                             |
| 1975        | 1,309                       | 917                  | 392                  | 531                             |
| 1976        | 1,302                       | 901                  | 401                  | 533                             |
| 1977        | 1,453                       | 1,013                | 440                  | 606                             |

Table No. 23

Southeast Technical Community College Area  
Historical, On Campus Degree  
Credit Enrollment

| <u>Year</u> | <u>Total<br/>Enrollment</u> | <u>Full<br/>Time</u> | <u>Part<br/>Time</u> | <u>First Time<br/>Full Time</u> |
|-------------|-----------------------------|----------------------|----------------------|---------------------------------|
| 1967        |                             |                      |                      |                                 |
| 1968        |                             |                      |                      |                                 |
| 1969        |                             |                      |                      |                                 |
| 1970        |                             |                      |                      |                                 |
| 1971        |                             |                      |                      |                                 |
| 1972        | 1,763                       | 1,659                | 104                  | 727                             |
| 1973        | 1,890                       | 1,710                | 180                  | 754                             |
| 1974        | 1,593                       | 1,434                | 159                  | 555                             |
| 1975        | 2,128                       | 1,763                | 365                  | 858                             |
| 1976        | 2,164                       | 1,773                | 391                  | 710                             |
| 1977        | 2,536                       | 1,927                | 609                  | 856                             |

Table No. 24

Western Technical Community College Area  
Historical, On Campus Degree  
Credit Enrollment

| <u>Year</u> | <u>Total<br/>Enrollment</u> | <u>Full<br/>Time</u> | <u>Part<br/>Time</u> | <u>First Time<br/>Full Time</u> |
|-------------|-----------------------------|----------------------|----------------------|---------------------------------|
| 1967        |                             |                      |                      |                                 |
| 1968        |                             |                      |                      |                                 |
| 1969        |                             |                      |                      |                                 |
| 1970        |                             |                      |                      |                                 |
| 1971        |                             |                      |                      |                                 |
| 1972        | 1,025                       | 837                  | 188                  | 450                             |
| 1973        | 985                         | 785                  | 200                  | 335                             |
| 1974        | 1,291                       | 644                  | 647                  | 319                             |
| 1975        | 1,134                       | 753                  | 381                  | 424                             |
| 1976        | 1,257                       | 770                  | 487                  | 442                             |
| 1977        | 1,327                       | 876                  | 451                  | 407                             |

Table No. 25

Nebraska Independent College  
Historical and Projected, On Campus Degree  
Credit Enrollment

| <u>Year</u> | <u>Total Enrollment</u> | <u>Full Time</u> | <u>Part Time</u> | <u>First Time Full Time</u> |
|-------------|-------------------------|------------------|------------------|-----------------------------|
| 1967        | 16,948                  | 14,383           | 2,565            | 4,135                       |
| 1968        | 16,807                  | 14,630           | 2,177            | 3,900                       |
| 1969        | 16,744                  | 14,436           | 2,308            | 3,967                       |
| 1970        | 15,530                  | 13,505           | 2,025            | 3,582                       |
| 1971        | 14,109                  | 12,023           | 2,086            | 3,132                       |
| 1972        | 13,770                  | 11,597           | 2,173            | 2,968                       |
| 1973        | 13,537                  | 11,501           | 2,036            | 3,156                       |
| 1974        | 13,457                  | 11,307           | 2,250            | 3,081                       |
| 1975        | 13,639                  | 11,289           | 2,350            | 2,969                       |
| 1976        | 13,883                  | 11,428           | 2,455            | 3,063                       |
| 1977        | 14,314                  | 11,471           | 2,843            | 2,904                       |

|      | <u>Total Enrollment</u> |                  | <u>Full Time Projections</u> |                  | <u>Part Time Projections</u> |                  | <u>First Time Full Time</u> |                  |
|------|-------------------------|------------------|------------------------------|------------------|------------------------------|------------------|-----------------------------|------------------|
|      | <u>Series #1</u>        | <u>Series #2</u> | <u>Series #1</u>             | <u>Series #2</u> | <u>Series #1</u>             | <u>Series #2</u> | <u>Series #1</u>            | <u>Series #2</u> |
| 1978 | 14,413                  | 14,216           | 11,689                       | 11,492           | 2,724                        | 2,724            | 3,079                       | 3,027            |
| 1979 | 14,367                  | 14,355           | 11,557                       | 11,545           | 2,810                        | 2,810            | 3,044                       | 3,041            |
| 1980 | 14,241                  | 14,321           | 11,344                       | 11,424           | 2,897                        | 2,897            | 2,988                       | 3,009            |
| 1981 | 14,086                  | 14,185           | 11,093                       | 11,192           | 2,993                        | 2,993            | 2,922                       | 2,948            |
| 1982 | 13,775                  | 13,935           | 10,687                       | 10,847           | 3,088                        | 3,088            | 2,815                       | 2,857            |
| 1983 | 13,567                  | 13,505           | 10,383                       | 10,319           | 3,184                        | 3,194            | 2,735                       | 2,718            |
| 1984 | 13,450                  | 13,192           | 10,171                       | 9,913            | 3,279                        | 3,279            | 2,679                       | 2,611            |
| 1985 | 13,474                  | 13,041           | 10,099                       | 9,666            | 3,375                        | 3,375            | 2,660                       | 2,546            |
| 1986 | 13,704                  | 13,112           | 10,254                       | 9,662            | 3,450                        | 3,450            | 2,701                       | 2,545            |
| 1987 | 13,913                  | 13,291           | 10,387                       | 9,765            | 3,526                        | 3,526            | 2,736                       | 2,572            |

Table No. 26

Bellevue College  
Historical, On Campus Degree  
Credit Enrollment

| <u>Year</u> | <u>Total<br/>Enrollment</u> | <u>Full<br/>Time</u> | <u>Part<br/>Time</u> | <u>First Time<br/>Full Time</u> |
|-------------|-----------------------------|----------------------|----------------------|---------------------------------|
| 1967        | 891                         | 169                  | 722                  | 64                              |
| 1968        | 758                         | 217                  | 541                  | 52                              |
| 1969        | 679                         | 228                  | 451                  | 61                              |
| 1970        | 761                         | 250                  | 511                  | 60                              |
| 1971        | 1,026                       | 347                  | 679                  | 114                             |
| 1972        | 1,117                       | 410                  | 707                  | 122                             |
| 1973        | 1,132                       | 407                  | 725                  | 117                             |
| 1974        | 1,164                       | 316                  | 848                  | 83                              |
| 1975        | 1,326                       | 378                  | 948                  | 110                             |
| 1976        | 1,543                       | 421                  | 1,122                | 128                             |
| 1977        | 1,909                       | 496                  | 1,413                | 144                             |

Table No. 27

The College of St. Mary  
 Historical, On Campus Degree  
 Credit Enrollment

| <u>Year</u> | <u>Total<br/>Enrollment</u> | <u>Full<br/>Time</u> | <u>Part<br/>Time</u> | <u>First Time<br/>Full Time</u> |
|-------------|-----------------------------|----------------------|----------------------|---------------------------------|
| 1967        | 619                         | 424                  | 195                  | 139                             |
| 1968        | 613                         | 451                  | 162                  | 121                             |
| 1969        | 449                         | 358                  | 91                   | 103                             |
| 1970        | 517                         | 385                  | 132                  | 128                             |
| 1971        | 560                         | 451                  | 109                  | 153                             |
| 1972        | 588                         | 458                  | 130                  | 158                             |
| 1973        | 568                         | 478                  | 90                   | 147                             |
| 1974        | 541                         | 449                  | 92                   | 135                             |
| 1975        | 549                         | 433                  | 116                  | 125                             |
| 1976        | 550                         | 432                  | 118                  | 133                             |
| 1977        | 540                         | 418                  | 122                  | 122                             |

Table No. 28

Concordia College  
Historical, On Campus Degree  
Credit Enrollment

| <u>Year</u> | <u>Total<br/>Enrollment</u> | <u>Full<br/>Time</u> | <u>Part<br/>Time</u> | <u>First Time<br/>Full Time</u> |
|-------------|-----------------------------|----------------------|----------------------|---------------------------------|
| 1967        | 1,427                       | 1,346                | 81                   | 249                             |
| 1968        | 1,498                       | 1,407                | 91                   | 247                             |
| 1969        | 1,569                       | 1,462                | 107                  | 275                             |
| 1970        | 1,685                       | 1,535                | 150                  | 327                             |
| 1971        | 1,737                       | 1,553                | 184                  | 247                             |
| 1972        | 1,539                       | 1,415                | 124                  | 229                             |
| 1973        | 1,347                       | 1,254                | 93                   | 230                             |
| 1974        | 1,234                       | 1,143                | 91                   | 231                             |
| 1975        | 1,156                       | 1,061                | 95                   | 198                             |
| 1976        | 1,125                       | 1,047                | 78                   | 206                             |
| 1977        | 1,129                       | 1,039                | 90                   | 212                             |

Table No. 29

Creighton University  
Historical, On Campus Degree  
Credit Enrollment

| <u>Year</u> | <u>Total<br/>Enrollment</u> | <u>Full<br/>Time</u> | <u>Part<br/>Time</u> | <u>First Time<br/>Full Time</u> |
|-------------|-----------------------------|----------------------|----------------------|---------------------------------|
| 1967        | 4,116                       | 3,487                | 629                  | 695                             |
| 1968        | 4,182                       | 3,609                | 573                  | 669                             |
| 1969        | 4,234                       | 3,578                | 656                  | 596                             |
| 1970        | 4,128                       | 3,575                | 553                  | 641                             |
| 1971        | 4,172                       | 3,598                | 574                  | 655                             |
| 1972        | 4,341                       | 3,682                | 659                  | 641                             |
| 1973        | 4,355                       | 3,807                | 548                  | 689                             |
| 1974        | 4,551                       | 3,928                | 623                  | 703                             |
| 1975        | 4,745                       | 4,161                | 584                  | 685                             |
| 1976        | 4,797                       | 4,230                | 567                  | 749                             |
| 1977        | 4,979                       | 4,357                | 622                  | 736                             |

Table No. 30

Dana College  
Historical, On Campus Degree  
Credit Enrollment

| <u>Year</u> | <u>Total<br/>Enrollment</u> | <u>Full<br/>Time</u> | <u>Part<br/>Time</u> | <u>First Time<br/>Full Time</u> |
|-------------|-----------------------------|----------------------|----------------------|---------------------------------|
| 1967        | 938                         | 779                  | 159                  | 284                             |
| 1968        | 989                         | 812                  | 177                  | 261                             |
| 1969        | 1,057                       | 888                  | 169                  | 319                             |
| 1970        | 962                         | 810                  | 152                  | 232                             |
| 1971        | 848                         | 715                  | 133                  | 195                             |
| 1972        | 751                         | 613                  | 138                  | 156                             |
| 1973        | 647                         | 536                  | 111                  | 145                             |
| 1974        | 610                         | 536                  | 74                   | 181                             |
| 1975        | 583                         | 532                  | 51                   | 180                             |
| 1976        | 550                         | 505                  | 45                   | 166                             |
| 1977        | 478                         | 450                  | 28                   | 134                             |

Table No. 31

Doane College  
Historical, On Campus Degree  
Credit Enrollment

| <u>Year</u> | <u>Total<br/>Enrollment</u> | <u>Full<br/>Time</u> | <u>Part<br/>Time</u> | <u>First Time<br/>Full Time</u> |
|-------------|-----------------------------|----------------------|----------------------|---------------------------------|
| 1967        | 717                         | 698                  | 19                   | 240                             |
| 1968        | 781                         | 763                  | 18                   | 271                             |
| 1969        | 754                         | 737                  | 17                   | 214                             |
| 1970        | 721                         | 702                  | 19                   | 209                             |
| 1971        | 711                         | 695                  | 16                   | 215                             |
| 1972        | 629                         | 618                  | 11                   | 201                             |
| 1973        | 620                         | 605                  | 15                   | 202                             |
| 1974        | 603                         | 588                  | 15                   | 199                             |
| 1975        | 633                         | 617                  | 16                   | 214                             |
| 1976        | 625                         | 612                  | 13                   | 221                             |
| 1977        | 647                         | 632                  | 15                   | 209                             |

Table No. 32

Grace College of The Bible  
Historical, On Campus Degree  
Credit Enrollment

| <u>Year</u> | <u>Total<br/>Enrollment</u> | <u>Full<br/>Time</u> | <u>Part<br/>Time</u> | <u>First Time<br/>Full Time</u> |
|-------------|-----------------------------|----------------------|----------------------|---------------------------------|
| 1967        | 431                         | 412                  | 19                   | 165                             |
| 1968        | 446                         | 424                  | 22                   | 165                             |
| 1969        | 536                         | 490                  | 46                   | 196                             |
| 1970        | 556                         | 505                  | 51                   | 174                             |
| 1971        | 525                         | 477                  | 48                   | 159                             |
| 1972        | 514                         | 463                  | 51                   | 150                             |
| 1973        | 549                         | 476                  | 73                   | 173                             |
| 1974        | 528                         | 470                  | 58                   | 162                             |
| 1975        | 535                         | 453                  | 82                   | 161                             |
| 1976        | 525                         | 473                  | 52                   | 153                             |
| 1977        | 486                         | 415                  | 71                   | 137                             |

Table No. 33

Hastings College  
Historical, On Campus Degree  
Credit Enrollment

| <u>Year</u> | <u>Total<br/>Enrollment</u> | <u>Full<br/>Time</u> | <u>Part<br/>Time</u> | <u>First Time<br/>Full Time</u> |
|-------------|-----------------------------|----------------------|----------------------|---------------------------------|
| 1967        | 828                         | 779                  | 49                   | 225                             |
| 1968        | 806                         | 771                  | 35                   | 227                             |
| 1969        | 853                         | 822                  | 31                   | 267                             |
| 1970        | 862                         | 830                  | 32                   | 297                             |
| 1971        | 826                         | 788                  | 38                   | 259                             |
| 1972        | 757                         | 724                  | 33                   | 243                             |
| 1973        | 715                         | 681                  | 34                   | 234                             |
| 1974        | 692                         | 655                  | 37                   | 239                             |
| 1975        | 684                         | 639                  | 45                   | 218                             |
| 1976        | 712                         | 663                  | 49                   | 225                             |
| 1977        | 736                         | 670                  | 66                   | 222                             |

Table No. 34

Midland Lutheran College  
Historical, On Campus Degree  
Credit Enrollment

| <u>Year</u> | <u>Total<br/>Enrollment</u> | <u>Full<br/>Time</u> | <u>Part<br/>Time</u> | <u>First Time<br/>Full Time</u> |
|-------------|-----------------------------|----------------------|----------------------|---------------------------------|
| 1967        | 874                         | 813                  | 61                   | 215                             |
| 1968        | 824                         | 764                  | 60                   | 200                             |
| 1969        | 906                         | 726                  | 180                  | 216                             |
| 1970        | 927                         | 804                  | 123                  | 268                             |
| 1971        | 867                         | 786                  | 81                   | 231                             |
| 1972        | 819                         | 741                  | 78                   | 206                             |
| 1973        | 803                         | 698                  | 105                  | 222                             |
| 1974        | 754                         | 648                  | 106                  | 201                             |
| 1975        | 769                         | 671                  | 89                   | 222                             |
| 1976        | 826                         | 738                  | 88                   | 243                             |
| 1977        | 843                         | 741                  | 102                  | 227                             |

Table No. 35

Nebraska Christian College  
 Historical, On Campus Degree  
 Credit Enrollment

| <u>Year</u> | <u>Total<br/>Enrollment</u> | <u>Full<br/>Time</u> | <u>Part<br/>Time</u> | <u>First Time<br/>Full Time</u> |
|-------------|-----------------------------|----------------------|----------------------|---------------------------------|
| 1967        | 168                         | 123                  | 45                   | 53                              |
| 1968        | 169                         | 142                  | 27                   | 54                              |
| 1969        | 157                         | 128                  | 29                   | 45                              |
| 1970        | 126                         | 110                  | 16                   | 36                              |
| 1971        | 117                         | 100                  | 17                   | 41                              |
| 1972        | 128                         | 104                  | 24                   | 48                              |
| 1973        | 168                         | 150                  | 18                   | 82                              |
| 1974        | 181                         | 152                  | 29                   | 59                              |
| 1975        | 167                         | 138                  | 29                   | 56                              |
| 1976        | 169                         | 146                  | 23                   | 72                              |
| 1977        | 170                         | 137                  | 33                   | 69                              |

Table No. 36

Nebraska Wesleyan University  
 Historical, On Campus Degree  
 Credit Enrollment

| <u>Year</u> | <u>Total<br/>Enrollment</u> | <u>Full<br/>Time</u> | <u>Part<br/>Time</u> | <u>First Time<br/>Full Time</u> |
|-------------|-----------------------------|----------------------|----------------------|---------------------------------|
| 1967        | 1,369                       | 1,201                | 168                  | 353                             |
| 1968        | 1,458                       | 1,267                | 191                  | 408                             |
| 1969        | 1,326                       | 1,180                | 146                  | 320                             |
| 1970        | 1,224                       | 1,158                | 66                   | 343                             |
| 1971        | 1,177                       | 1,107                | 70                   | 335                             |
| 1972        | 1,080                       | 1,022                | 58                   | 320                             |
| 1973        | 1,111                       | 1,038                | 73                   | 369                             |
| 1974        | 1,117                       | 1,019                | 98                   | 364                             |
| 1975        | 1,169                       | 1,042                | 127                  | 346                             |
| 1976        | 1,152                       | 1,030                | 122                  | 319                             |
| 1977        | 1,108                       | 1,040                | 68                   | 313                             |

Table No. 37

Platte Valley Bible College  
 Historical, On Campus Degree  
 Credit Enrollment

| <u>Year</u> | <u>Total<br/>Enrollment</u> | <u>Full<br/>Time</u> | <u>Part<br/>Time</u> | <u>First Time<br/>Full Time</u> |
|-------------|-----------------------------|----------------------|----------------------|---------------------------------|
| 1967        | 70                          | 59                   | 11                   | 31                              |
| 1968        | 59                          | 44                   | 15                   | 11                              |
| 1969        | 63                          | 42                   | 21                   | 15                              |
| 1970        | 57                          | 45                   | 12                   | 22                              |
| 1971        | 81                          | 62                   | 19                   | 23                              |
| 1972        | 82                          | 52                   | 30                   | 27                              |
| 1973        | 106                         | 85                   | 21                   | 46                              |
| 1974        | 103                         | 76                   | 27                   | 25                              |
| 1975        | 97                          | 67                   | 30                   | 18                              |
| 1976        | 59                          | 43                   | 16                   | 19                              |
| 1977        | 58                          | 37                   | 21                   | 16                              |

Table No. 38

Union College  
Historical, On Campus Degree  
Credit Enrollment

| <u>Year</u> | <u>Total<br/>Enrollment</u> | <u>Full<br/>Time</u> | <u>Part<br/>Time</u> | <u>First Time<br/>Full Time</u> |
|-------------|-----------------------------|----------------------|----------------------|---------------------------------|
| 1967        | 1,139                       | 958                  | 181                  | 302                             |
| 1968        | 1,037                       | 851                  | 186                  | 305                             |
| 1969        | 952                         | 847                  | 105                  | 260                             |
| 1970        | 893                         | 796                  | 97                   | 262                             |
| 1971        | 808                         | 723                  | 85                   | 237                             |
| 1972        | 819                         | 734                  | 85                   | 213                             |
| 1973        | 754                         | 663                  | 91                   | 223                             |
| 1974        | 818                         | 702                  | 116                  | 253                             |
| 1975        | 882                         | 771                  | 111                  | 248                             |
| 1976        | 903                         | 771                  | 132                  | 259                             |
| 1977        | 923                         | 747                  | 176                  | 214                             |

Table No. 39

York College  
 Historical, On Campus Degree  
 Credit Enrollment

| <u>Year</u> | <u>Total<br/>Enrollment</u> | <u>Full<br/>Time</u> | <u>Part<br/>Time</u> | <u>First Time<br/>Full Time</u> |
|-------------|-----------------------------|----------------------|----------------------|---------------------------------|
| 1967        | 355                         | 333                  | 22                   | 212                             |
| 1968        | 391                         | 373                  | 18                   | 225                             |
| 1969        | 325                         | 303                  | 22                   | 163                             |
| 1970        | 318                         | 297                  | 21                   | 164                             |
| 1971        | 343                         | 317                  | 26                   | 175                             |
| 1972        | 340                         | 309                  | 31                   | 161                             |
| 1973        | 380                         | 351                  | 29                   | 173                             |
| 1974        | 323                         | 292                  | 31                   | 157                             |
| 1975        | 344                         | 326                  | 18                   | 188                             |
| 1976        | 343                         | 313                  | 30                   | 170                             |
| 1977        | 308                         | 292                  | 16                   | 149                             |

## APPENDICES

### Appendix #1

Letter to William S. Fuller,  
Executive Director of the  
Nebraska Coordinating Commission  
for Postsecondary Education from  
Dr. Daniel V. Taylor of the  
Legislative Fiscal Office, dated  
January 18, 1977, regarding the  
Nebraska Enrollment Projection  
System (NEPS).

### Appendix #2

Changes In Enrollment By 1985,  
by Ms. Cathy Henderson, Policy  
Analysis Service Report, Vol. 3,  
No. 1, June 1977, American  
Council on Education. This  
summary of the report was  
prepared by Dr. John R. Wittstruck,  
Coordinator of Information Systems  
of the Nebraska Coordinating  
Commission for Postsecondary  
Education.

**State of Nebraska**  
**LEGISLATIVE COUNCIL**

1976

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STATE CAPITOL, LINCOLN 68509

January 18, 1977

**JACK W. RODGERS**  
Director of Research  
**VINCENT D. BROWN**  
Clerk of the Legislature  
**BRUCE A. CUTSHALL**  
Revisor of Statutes  
**WILLIAM BRUNSEN**  
Legislative Fiscal Analyst  
**MURRELL B. McNEIL**  
Ombudsman

Dr. William S. Fuller  
Executive Director  
Nebraska Coordinating Commission  
for Postsecondary Education  
Room 344, State Capitol  
Lincoln, NE 68509

Dear Dr. Fuller:

In our conversation of January 6, 1977, regarding the Nebraska Enrollment Projection System (NEPS), you requested that our office prepare a technical report that would provide you with the following information:

1. an analysis of the NEPS and its operating deficiencies.
2. a review of the available alternatives for improving the NEPS.

Attached to this letter is a summary report in response to your request for assistance. The report briefly summarizes the concerns we discussed. As you identify specific questions and needs relative to the NEPS, we will be glad to provide whatever technical assistance we can.

Within the week, we will be delivering to your office the records and technical documents collected during four years of utilizing the NEPS. The Nebraska Coordinating Commission for Postsecondary Education assumed responsibility for the NEPS on January 1, 1977, and the records we will deliver are for your use and information, as you deem appropriate. The

Letter to Dr. Fuller  
Page 2  
January 18, 1977

1976 NEPS report should be publically available by January 31, 1977. At that point, our office will assist the Commission in any way we can as it assumes its responsibility for Nebraska's enrollment projections.

If you have any further comments or questions, please do not hesitate to contact our office.

Sincerely,

*dam*

Daniel V. Taylor  
Legislative Analyst

DVT/skj

Enclosure

REVIEW AND RECOMMENDATIONS  
FOR IMPROVEMENT OF THE NEBRASKA  
ENROLLMENT PROJECTION SYSTEM

What Does the NEPS Provide

The NEPS has four primary projection and analysis subprograms. These include:

Program 1

Using a variation of the moving averages technique, twelfth grade graduate entrances into Nebraska's colleges and universities are projected for a five-year period. Using a five-year historical data base prepared by the Nebraska Department of Education and Dr. John Laramy of the University of Nebraska-Lincoln, the primary enrollment cohort group is analyzed for their enrollment patterns.

Program 2

Using a cohort-survival technique and drop-out/stop-out rates reported by the institutions, an attrition rate is developed for each reporting institution.

Program 3

The transfer and migration patterns of students, as reported by the institutions, are aggregated and analyzed. The patterns are keyed to Nebraska's reporting institutions and the state of origin for out-state migrants into Nebraska's colleges and universities.

#### Program 4

Given the historical and current data noted in programs 1-3, the NEPS aggregates these variables and reports institutional and statewide projections and actual enrollment patterns. The NEPS can provide reports for: attrition rates, number of graduates, entering freshman by county, student continuation rates by class, transfers among Nebraska institutions, transfers into and out of Nebraska institutions from any source, total institutional and statewide FTE and headcount projections, and projections by class level (freshman, sophomore, etc.).

#### What the NEPS Does not Provide

The NEPS does not provide a number of analytical and projection capabilities associated with statewide and institutional enrollment forecasting. The capabilities not provided for include the following:

1. The NEPS does not account for social, economic and financial variables that do affect attendance decisions and patterns by students in the primary and secondary cohort groups. These variables may include: disposable farm and non-farm income, employment/unemployment, attendance cost increases, inflation, salary/wage growth, race, age, sex, and other socio-economic factors. The NEPS has a linear multiple regression statistical routine that will accommodate up to three independent social, economic and/or financial variables.

2. The NEPS does not account for manpower trends within the state or for the HEW/USOE multi-state planning region in which Nebraska is located. The NEPS is unable to make manpower projections.
3. The NEPS is unable to generate alternative enrollment projections based on differing sets of assumptions. As a consequence, projection modeling and scenario related forecasting is impossible given the present limitations of the NEPS.

#### What Problems Does the NEPS Have

During the four years that the Nebraska Facilities Commission (1972) and the Legislative Fiscal Analyst (1973-76) have utilized the NEPS, a number of systemic deficiencies have been identified within the enrollment projection system. These deficiencies include:

1. The NEPS programs were written in COBOL and FORTRAN language. COBOL programs are machine inefficient and FORTRAN programs have not traditionally been supported by the Central Data Processing (CDP) division of DAS. The CDP programmers understand and can work with the NEPS COBOL problems, but cannot provide the same service for the FORTRAN programs.
2. The statistical design and software components of the NEPS create projection errors and are conceptually deficient as

a basis for accurate and useful enrollment projecting.

3. NEPS projections have traditionally been inaccurate and the models credibility with intended users has suffered.
4. The NEPS requires that all enrollment data inputs for all participating institutions conform to uniform definitions of attendance and student status. In particular, the NEPS is not able to accurately project enrollments for the technical community colleges due, in part, to their continuous enrollment of students. Unlike the colleges and universities participating in the NEPS, the technical community colleges do not rely on a single counting point for the reporting of institutional enrollments.
5. The NEPS was developed by Systems Research, a private consulting corporation, in association with an advisory council. The actual NEPS design and software were not understood by either the Facilities Commission or the advisory council. Instructional books provided with the NEPS, as a user guide, gave the impression that as long as all the numbers go in right, good information will come out. As a result, no one fully understands the system. Reinvolverment of Systems Research, Inc. may help to explain from their viewpoint the design of the NEPS and broaden the information base.

#### Evaluation of the NEPS

The NEPS at the state level has accurately predicted

postsecondary enrollments within plus or minus 3% error for 1972-73 and 1973-74. The error margin for 1974-75 was approximately 8% at the statewide level. At the institutional and/or system level the projections have had error margins ranging from plus or minus 1%-30%. The projections for the community colleges have been underestimated over a three-year period by 25%-40%. The 1975-76 projections have error margins that are within permissible limits at the statewide and system level.<sup>1</sup> The institutional projections have acceptable error margins for less than half of the reporting colleges and universities. To improve the statewide and system projections, Legislative Fiscal Office staff augmented the NEPS model and recalculated many of the projections. Without additional corrections, the NEPS is becoming less accurate with each new projection report.

#### What are the Alternatives

Given the deficiencies in the NEPS as currently programmed, some changes in the NEPS will be necessary to improve its accuracy and utility. The available alternatives include the following:

##### Alternative 1

Leave the NEPS programs and statistical packages as they

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<sup>1</sup>The permissible error margin used to compare NEPS results is a plus or minus 5% error at the statewide level and plus or minus 3% error at the institutional level. This comparison error margin was developed by LFO staff after reviewing NCHEMS enrollment reports and reports from four states utilizing statewide projection models.

are and attempt to correct software and statistical errors. This would require the re-creation of the original NEPS computer tapes and extensive program and statistical package analysis and upgrading. Some of the NEPS computer tapes have been lost, others have been incorrectly modified in attempts to correct program errors, and others are in their original form.

#### Alternative 2

Modify the existing NEPS to provide for a consistent program language (all COBOL or all FORTRAN) and upgrade the software and statistical packages in this modification process. COBOL language is machine inefficient and is a format not usually associated with enrollment projections systems. CDP does not support FORTRAN language (the University of Nebraska does), but would be willing to run the model if someone else does the programming. To reprogram the NEPS will require an extensive commitment of time, staff expertise, and financial support.

#### Alternative 3

Using the conceptual direction of the NEPS with an upgrading of reporting capability, a new projection model could be developed that is consistent with the original direction of the NEPS. This model could be written in FORTRAN or COBOL language. It could be developed with CDP (COBOL) or with the University of Nebraska (FORTRAN). Costs and staff requirements would vary depending on which language and cooperative partner is selected. CDP can develop an enrollment model in COBOL language that could meet state level and institutional data

needs. The cost would be approximately (\$4,000-8,000). The end product would be a model that utilizes a machine inefficient language that is not amenable to some types of projection modeling. The University of Nebraska-Lincoln could assist in the development of a FORTRAN model. It is impossible to estimate the cost of such an effort at this time. The end product would be machine efficient, easier to work with and understand, and it could provide nearly all types of desired projection modeling.

#### Summary

A review of the NEPS indicates that its projections are becoming less accurate with each new report. Extensive program revisions would be necessary to upgrade the current projection system. In keeping with the conceptual direction of the NEPS, new programs can be written in either COBOL or FORTRAN languages with the advantages and disadvantages noted earlier in the report. Should it be determined that it would be appropriate to develop an entirely new projection system, the strengths and weaknesses of the NEPS may be a good starting point for reviewing what a new system should provide.



## NEBRASKA COORDINATING COMMISSION FOR POSTSECONDARY EDUCATION

### CHANGES IN ENROLLMENT BY 1985

Summary of report prepared by Ms. Cathy Henderson, "Changes in Enrollment by 1985," Policy Analysis Service Report, Vol. 3, No. 1, June 1977, American Council on Education.

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By 1985 there will be fewer freshmen enrolled in Nebraska institutions of higher education than there were in 1975. The estimates show, however, that the projected decrease for Nebraska may not be much greater than the decrease projected for the nation as a whole. Nebraska will have fewer 18-year-olds (the traditional-age freshman as defined by the report) in the 1985 population and consequently there will be fewer in-state freshmen enrolling in Nebraska institutions. The report also shows, however, that more students come to Nebraska to go to school than there are Nebraskans who leave the state to go to school elsewhere. If this continues at present rates, the impact of having fewer in-state 18-year-olds in 1985 will be less severe than if the in-state to out-of-state trend were reversed. The report indicates, however, that the in-state migration pattern will provide greater benefit to the independent collegiate institutions than the public institutions of Nebraska higher education.

Estimates of state enrollment levels by 1985 were based on three factors: (1) regional shifts in the 18-year-old population; (2) the expected enrollment of 18-year-olds at institutions within their home states; and, (3) the historical migration patterns of students between states.

The net result of these factors on freshmen enrollments by 1985 show that the following may occur.

1. Six states are expected to increase their enrollment because they are expected to have an increase in their in-state 18-year-old population and historically the states have been importers of out-of-state freshmen.

Colorado is among this group. Most of the out-of-state students have historically enrolled in public institutions in Colorado. The public institutions in Colorado, therefore, are expected to benefit more from the in-state migration by 1985 than the independent collegiate institutions in that state.

2. Thirty-three (33) states, of which Nebraska is one, are expected to have fewer 18-year-olds in the states's population but this will be balanced to some extent by the enrollment of students from other states. These states will "experience 'trade-offs' (that is, between shifts in the pool of 18-year-olds and expected migration patterns) which will not significantly affect total freshman enrollment levels within the state." (page 5)

Kansas, Missouri, Nebraska, Oklahoma, South Dakota and Wyoming are among this group. Most of the students enrolling in Kansas, Oklahoma and Wyoming from other states will enroll in public institutions. Out-of-state freshmen enrolling in schools in Missouri, Nebraska, and South Dakota are expected to enroll primarily in independent collegiate institutions.

For Nebraska, therefore, these data suggest that the dependency public institutions have on in-state 18-year-olds will cause their enrollments to decrease more severely than the decrease projected for the independent collegiate institutions. Although the independent collegiate institutions will also be affected by the reduced in-state 18-year-old population, the impact on their enrollment will be less severe as they are less dependent upon in-state students as their source for new students.

3. Another group of two states, which includes Iowa, will have reduced numbers of 18-year-olds in the population and will probably not attract sufficient numbers of freshmen from other states to offset the decline.
4. Vermont is expected to gain in enrollment of freshmen because of the in-state migration even though there will be fewer 18-year-olds in that state by 1985.
5. Nine states are expected to have a net loss of freshmen by 1985 because they have historically been exporters of freshmen and will have fewer 18-year-olds in their population in 1985.

One of the implications of this study, which has an impact in Nebraska, is the demonstration of the interdependence of public and independent institutions within the state to insure a stable future enrollment of freshmen.

Based on these findings the report suggests that states may be able to alter this trend by exploring the following alternatives.

1. States which impose enrollment ceilings on their institutions may reverse the out-of-state migration pattern in those states by removing such limitations.
2. States, including Nebraska, might consider reducing their out-of-state resident tuition charges to encourage more students from other states to enroll in public institutions within the state.

3. Encourage older persons to enroll as first-time, full-time freshmen. Nationally 74% of all first-time, full-time students in 1975 were 18-year-olds and 6% were 20 years or older. In the West, where freshmen enrollments by 1985 are not expected to drop, 63% of the 1975 first-time, full-time freshmen were 18-year-olds, and 12% were 20 years or older.

The following tables were extracted from the report and show data for those states which border Nebraska and/or have one of the Big 8 Institutions.

TABLE 1  
PROJECTED CHANGES IN THE 18-YEAR-OLD POPULATION: 1975-1985 FOR SELECTED STATES

| State                          | Estimated            |                      | Projected            |                      | Projected                             |          | % Change Between<br>1975 and 1985 |
|--------------------------------|----------------------|----------------------|----------------------|----------------------|---------------------------------------|----------|-----------------------------------|
|                                | 18 Year-Olds In 1970 | 18 Year-Olds In 1975 | 18 Year-Olds In 1975 | 18 Year-Olds In 1985 | Absolute Difference<br>from 1975-1985 |          |                                   |
|                                | Number               | % of U.S.<br>Total   | Number               | % of U.S.<br>Total   | Number                                |          |                                   |
| Wyoming                        | 5,715                | 0.160%               | 7,590                | 0.185%               | 8,473                                 | +883     | +12%                              |
| Colorado                       | 43,473               | 1.217%               | 54,450               | 1.328%               | 55,816                                | +1,366   | +2%                               |
| South Dakota                   | 12,663               | 0.355%               | 14,520               | 0.354%               | 12,722                                | -1,798   | -12%                              |
| Oklahoma                       | 45,623               | 1.277%               | 52,140               | 1.272%               | 45,387                                | -6,753   | -13%                              |
| Missouri                       | 80,410               | 2.251%               | 91,080               | 2.221%               | 77,843                                | -13,237  | -14%                              |
| Nebraska                       | 27,038               | 0.757%               | 30,360               | 0.740%               | 25,473                                | -4,887   | -16%                              |
| Kansas                         | 42,215               | 1.180%               | 46,530               | 1.135%               | 37,479                                | -9,051   | -19%                              |
| Iowa                           | 49,688               | 1.391%               | 53,130               | 1.296%               | 39,805                                | -13,325  | -25%                              |
| Total for the<br>United States | 3,572,055            | 99.999%              | 4,100,250            | 99.999%              | 3,600,967                             | -499,283 | -12%                              |

This Table shows the projected 18-year-old population in the identified states for the year 1985. Three of these states (Wyoming, Colorado, and South Dakota) will do better or as well as the national average in terms of the decline in the 18-year-old in-state population. Nebraska is projected to have 4,887 fewer 18-year-old residents in 1985 than in 1975. Over the estimated 1975 18-year-old population, this represents a decline of 16% which is 4% greater for Nebraska than that which is expected for the nation as a whole.

TABLE 2

IMPACT OF PROJECTED POPULATION SHIFTS AND MIGRATION TRENDS OF STUDENTS ON  
ENROLLMENT OF TRADITIONAL-AGE FRESHMEN: 1975-1985, FOR SELECTED STATES

| State                         | A<br>% of 18-Year-Olds<br>Projected to Enroll<br>as Freshmen in<br>1975 and 1985 | B<br>Difference<br>in the Number<br>of 18-Year-Olds<br>Between 1975-1985 | C<br>Projected<br>Number of<br>Freshmen in 1985<br>(AxB) | D<br>Net Migration<br>of Freshmen to<br>the state:<br>1975-1985 | E<br>Net Impact of<br>Population and<br>Migration Patterns<br>(C+D) | F<br>Total<br>Freshman<br>Enrollment<br>in 1975 | G<br>Net Impact<br>as % of 1975<br>Freshman Enrollment<br>(E÷F) |
|-------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------|
| Colorado                      | 34%                                                                              | +1,366                                                                   | +464                                                     | +4,099                                                          | +4,563                                                              | 30,550                                          | +14.9%                                                          |
| Wyoming                       | 26%                                                                              | +883                                                                     | +230                                                     | +14                                                             | +244                                                                | 4,442                                           | +5.5%                                                           |
| Oklahoma                      | 27%                                                                              | -6,753                                                                   | -1,823                                                   | +2,171                                                          | +348                                                                | 30,900                                          | +1.1%                                                           |
| South Dakota                  | 33%                                                                              | -1,798                                                                   | -593                                                     | +542                                                            | -51                                                                 | 7,736                                           | -0.7%                                                           |
| Nebraska                      | 30%                                                                              | -4,887                                                                   | -1,466                                                   | +393                                                            | -1,073                                                              | 18,409                                          | -5.8%                                                           |
| Kansas                        | 34%                                                                              | -9,051                                                                   | -3,077                                                   | +1,237                                                          | -1,840                                                              | 28,322                                          | -6.5%                                                           |
| Missouri                      | 28%                                                                              | -13,237                                                                  | -3,706                                                   | +316                                                            | -3,390                                                              | 45,177                                          | -7.5%                                                           |
| Iowa                          | 30%                                                                              | -13,325                                                                  | -3,997                                                   | 1                                                               | -3,996                                                              | 31,053                                          | -12.9%                                                          |
| Total of the<br>United States | 28%                                                                              | -499,283                                                                 | -140,983                                                 | +29,559                                                         | -111,374                                                            | 2,524,453                                       | -4.4%                                                           |

Taking into account the decline in the number of 18-year-olds projected for Nebraska by 1985 and the net migration of freshmen to Nebraska from other states, it is estimated that Nebraska will only be slightly worse off in the future than the nation as a whole in terms of state-wide freshman enrollment. Operationally this table may be interpreted as meaning that Nebraska is projected to be slightly more vulnerable to projected changes in enrollment of traditional-age freshmen due to demographic changes than that of the nation. The net impact of these changes in Colorado is expected to make this state less vulnerable to the combined impact of population trends and migration patterns than the other states shown here, as well as the nation.

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